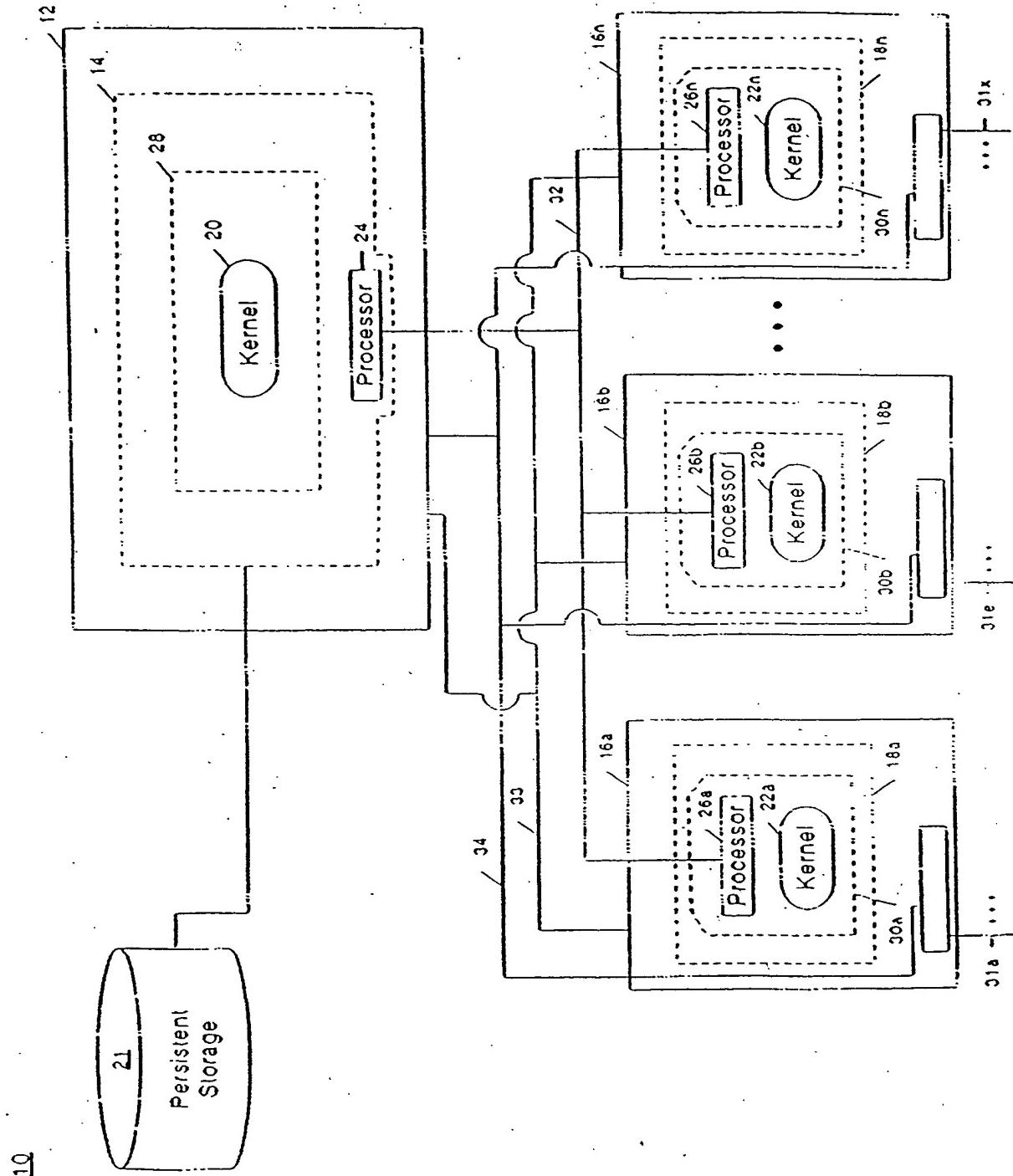


FIG. 1



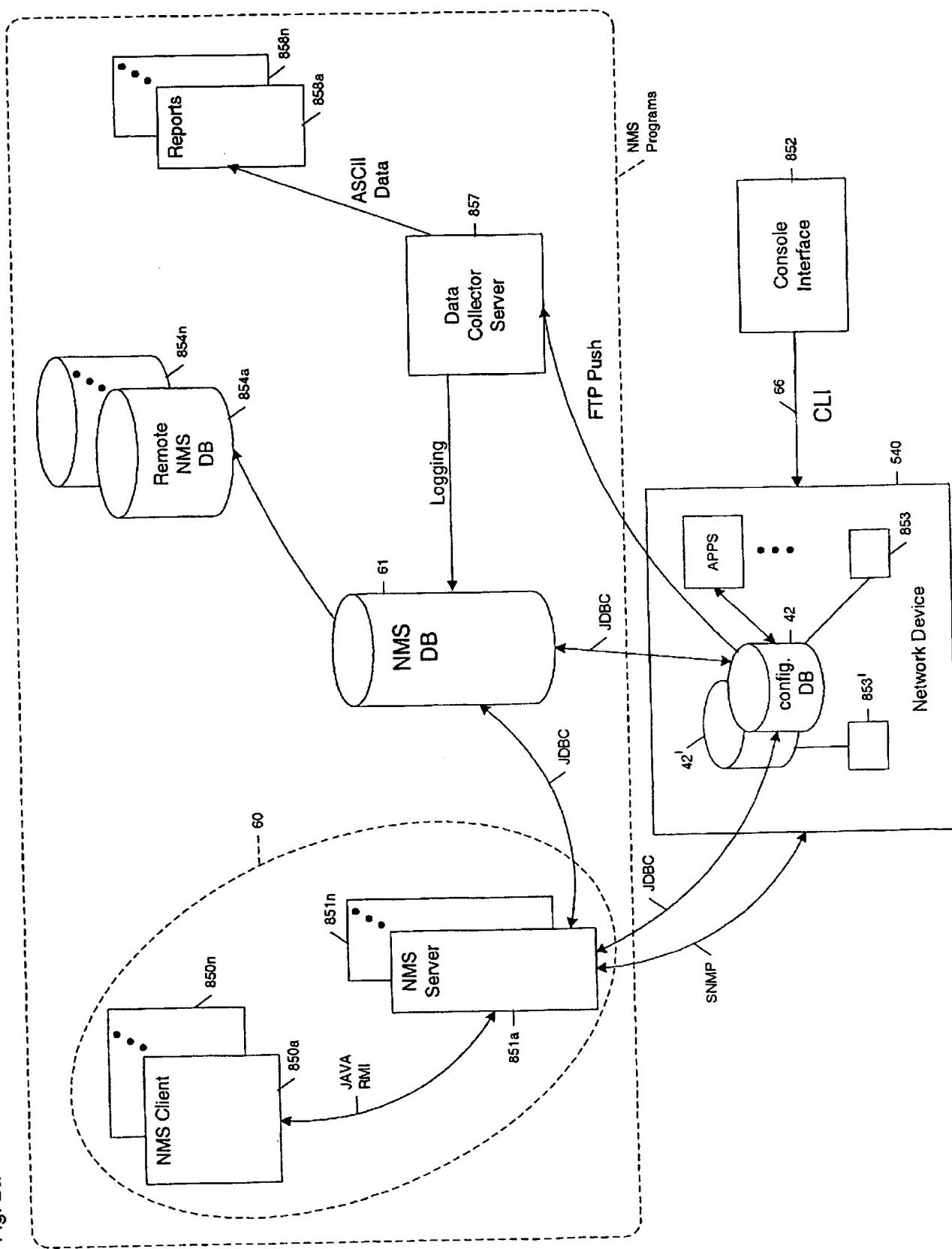


Fig. 2a

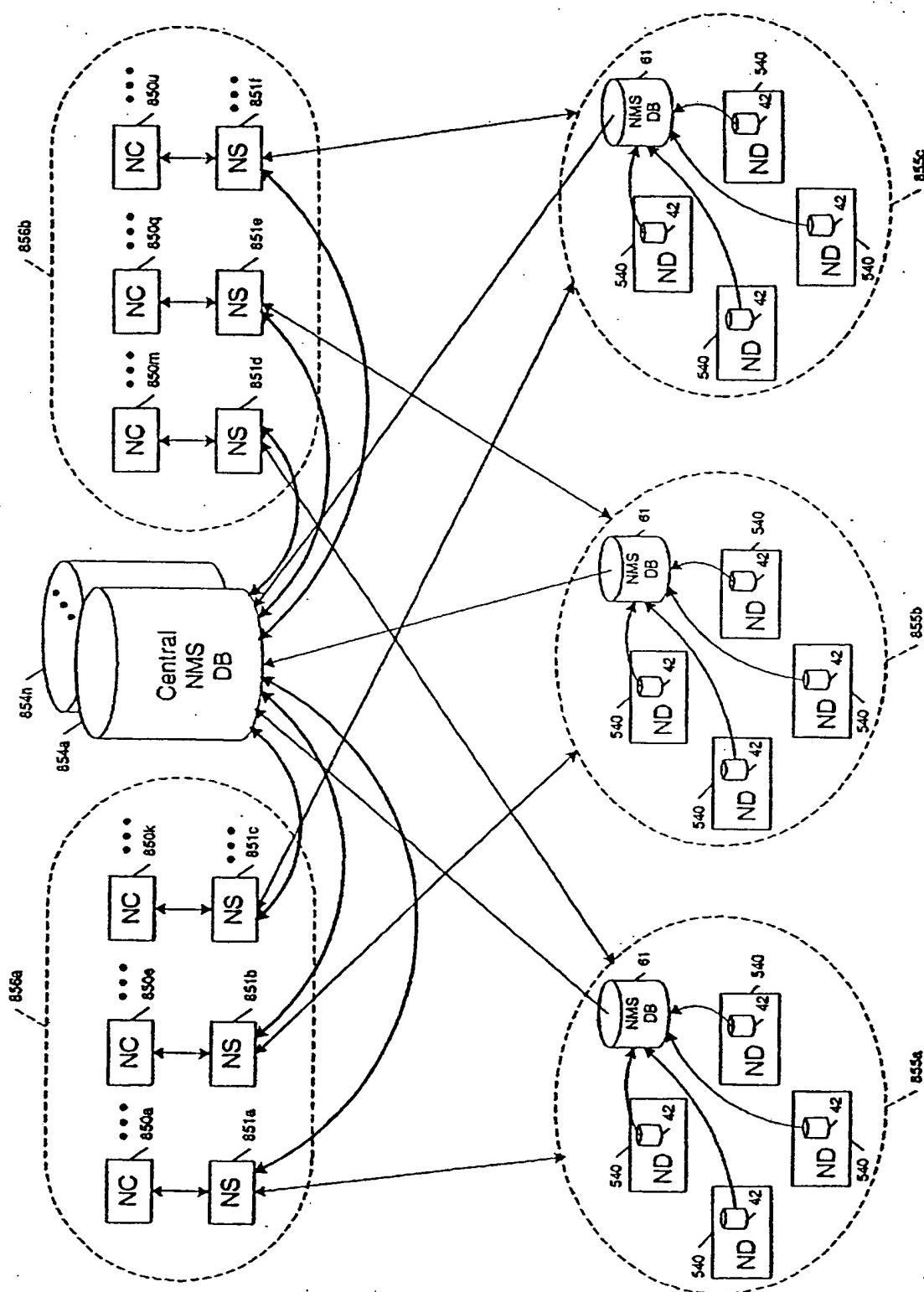


Fig. 2b

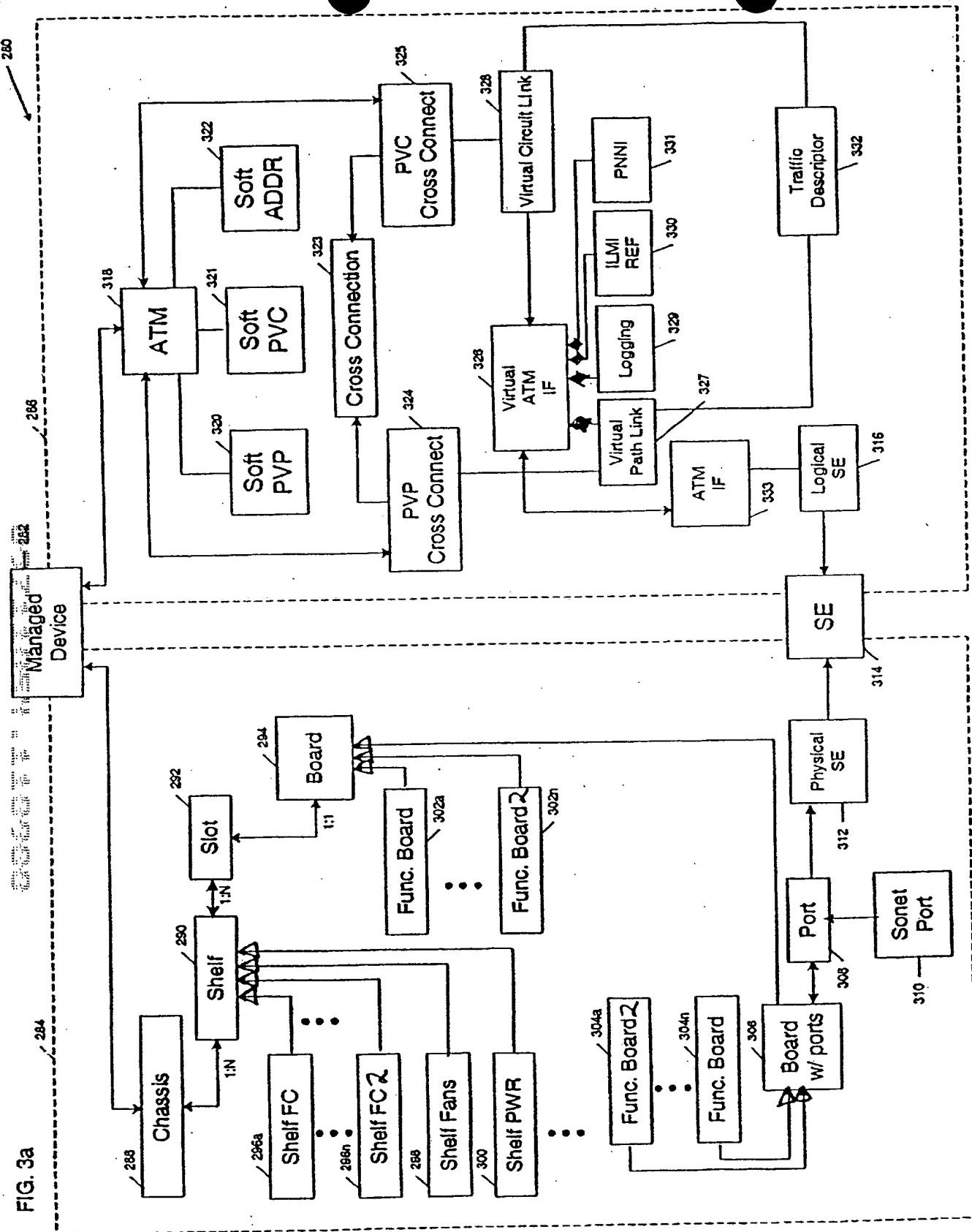
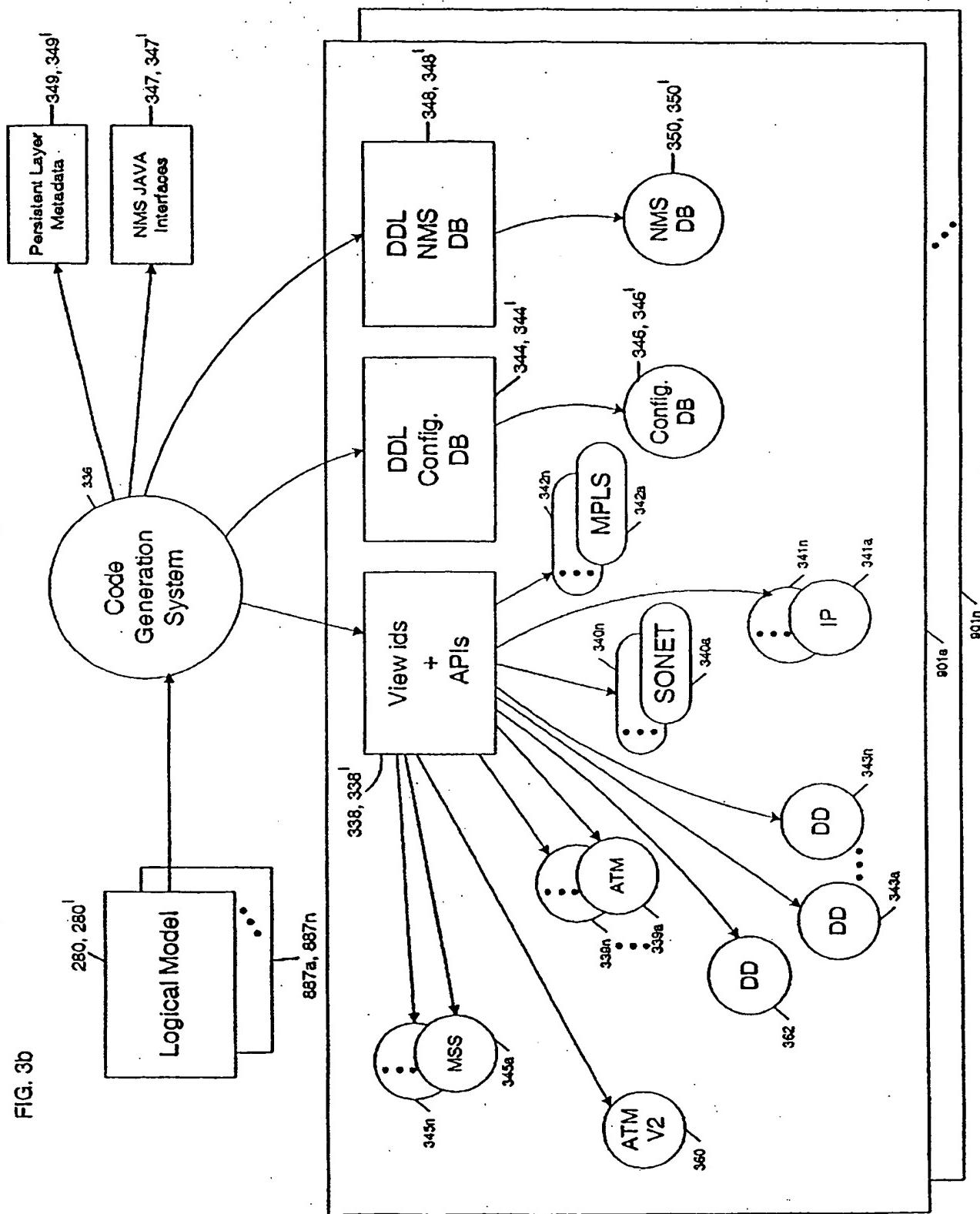


FIG. 3b



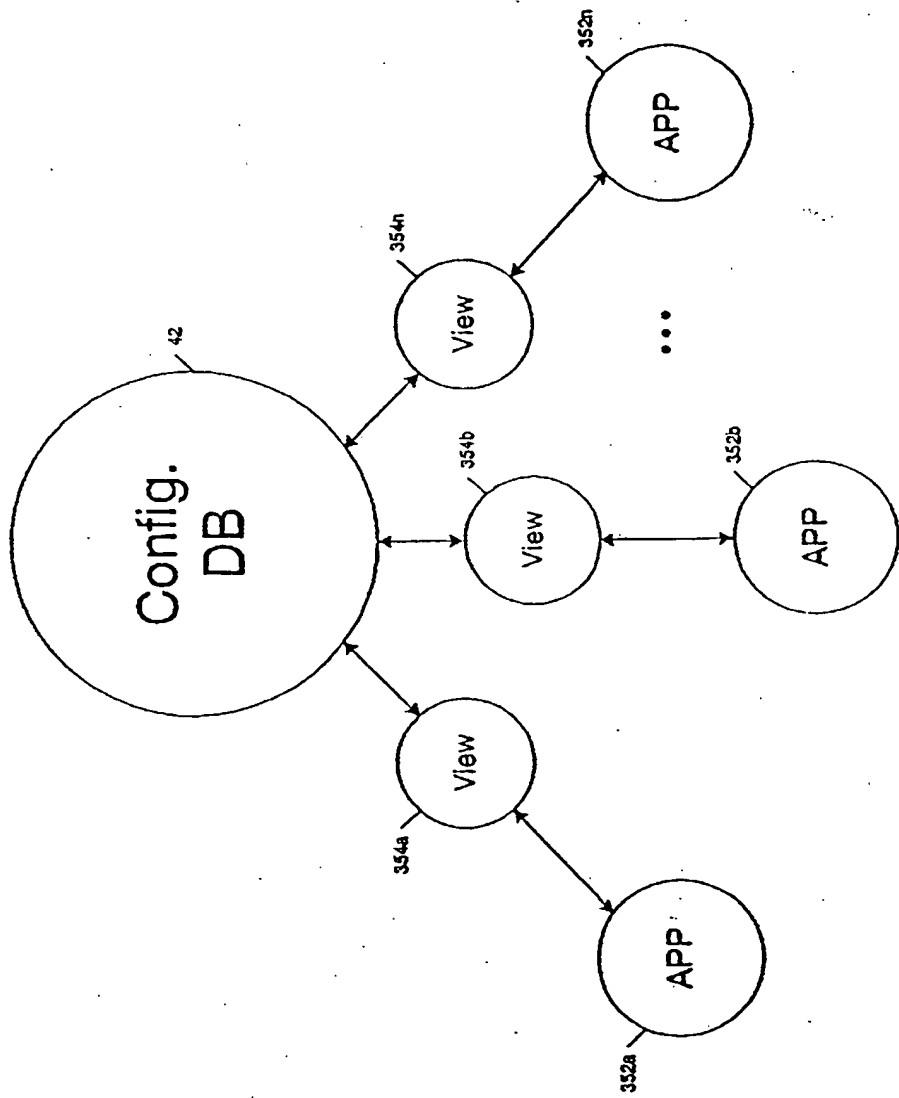


FIG. 3C

Fig. 3d

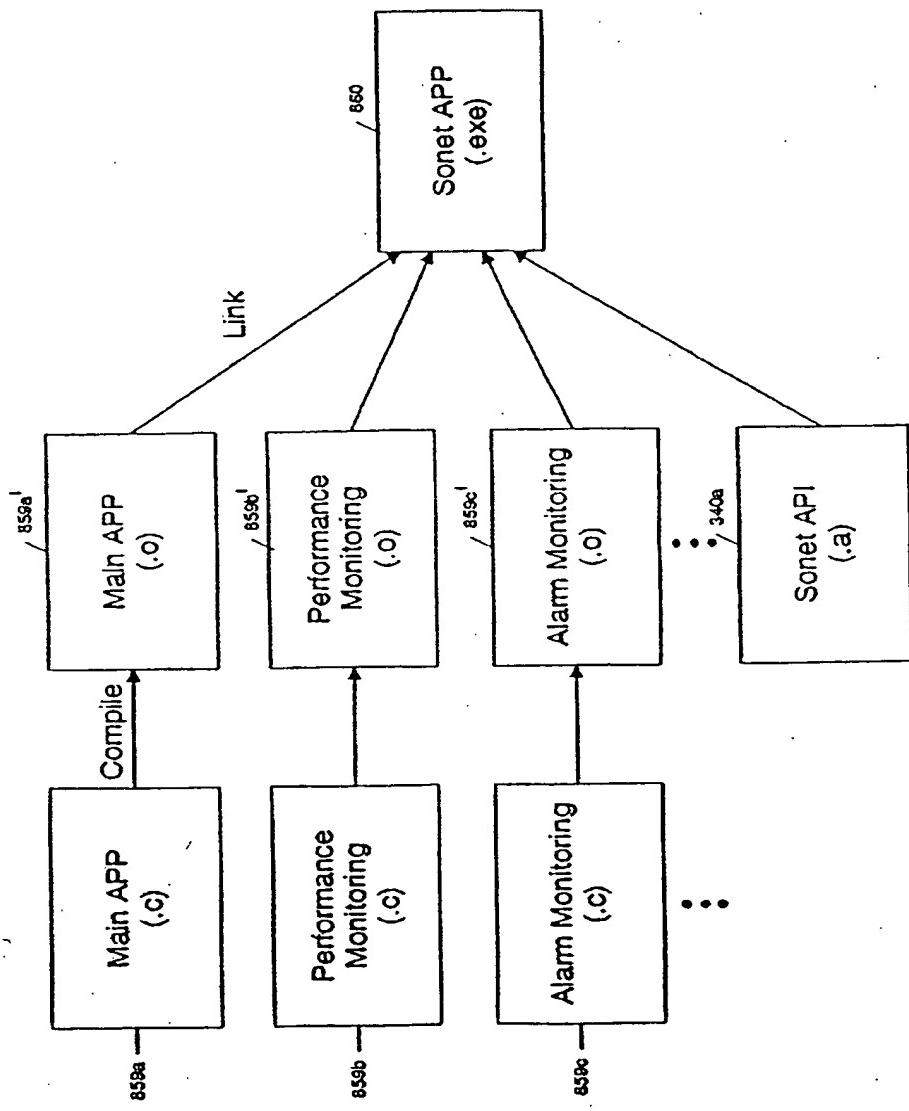
Build SONET Application

Fig. 3e

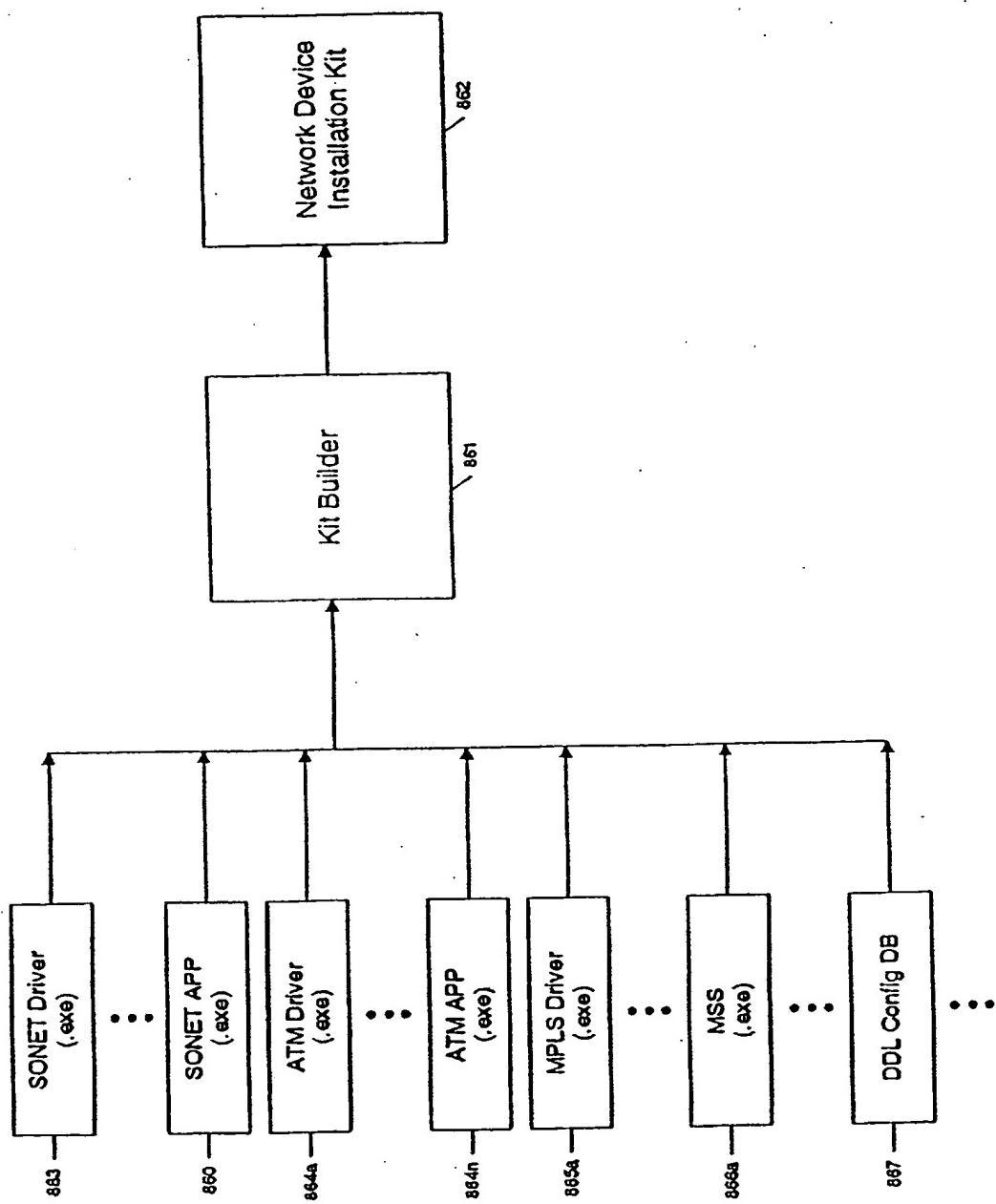


Fig. 3F

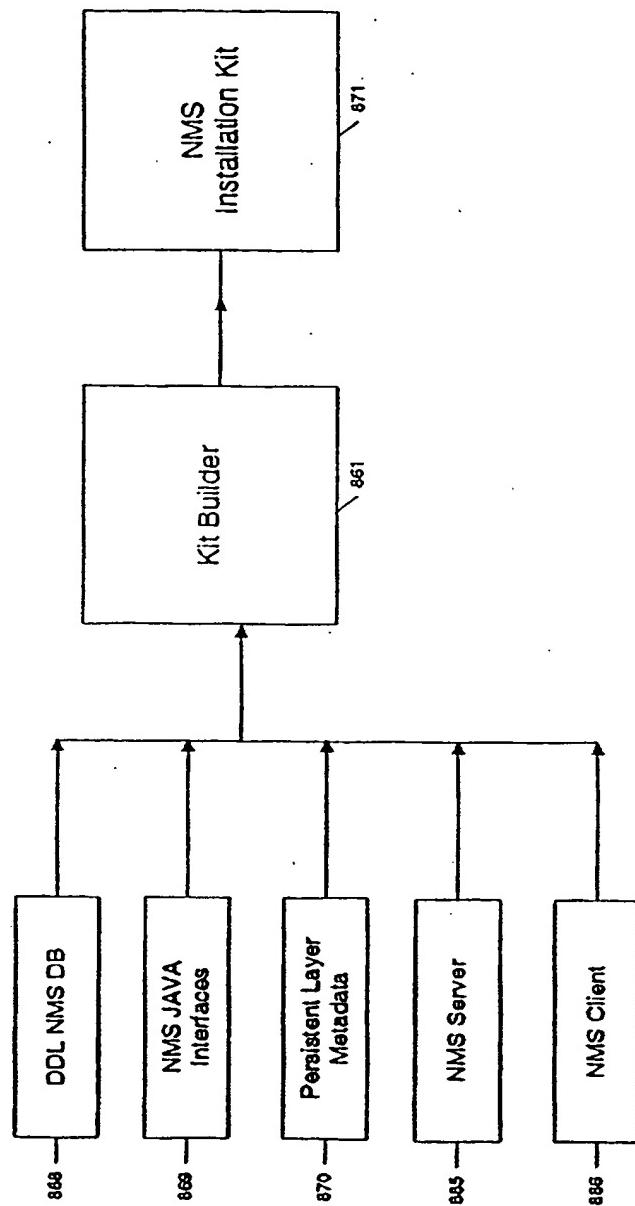


Fig. 3g

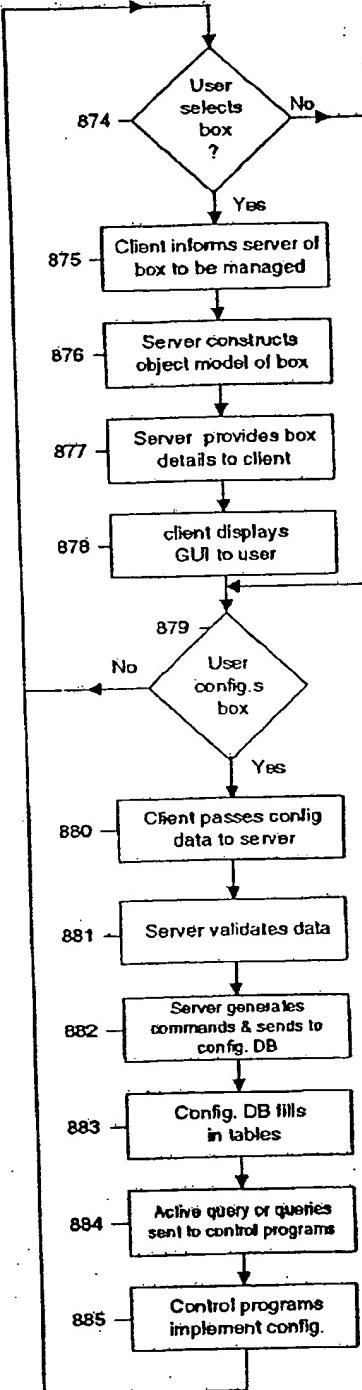
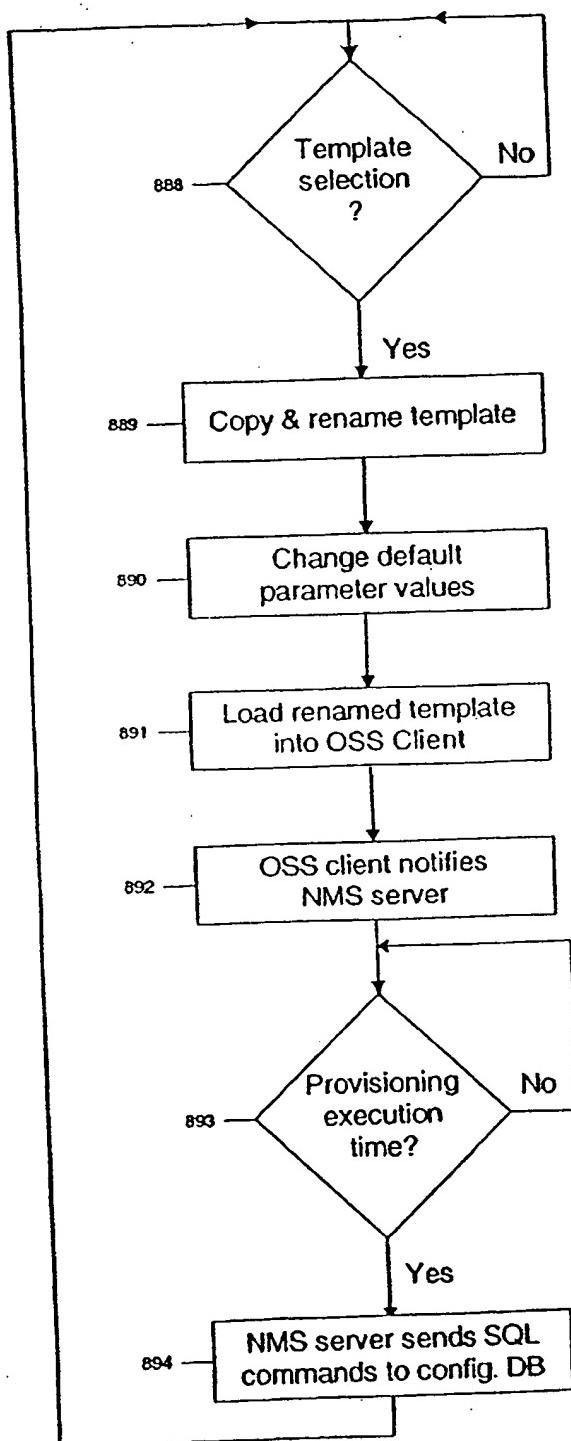


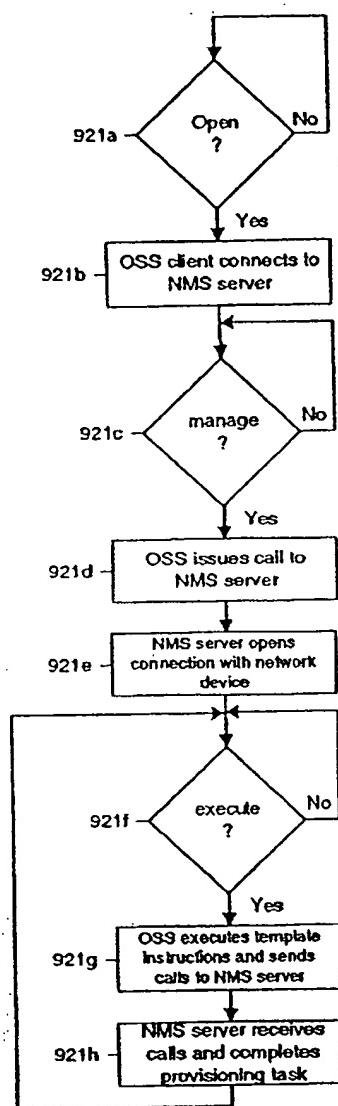
Fig. 3h



912 {
Enetcli>
Enetcli> help
Commands are:
913 }
bye
close
execute
help
load
manage
open
quit
showCurrent
showTemplate
set
status
writeCurrent
writeTemplate
Enetcli>
914 }
Enetcli> showCurrent SPATH
ATMifName=ATMif1/1/1
Concatenated=false
Name=Path1/1/1
Operant=SPATH
Operator=Create
PortID=1
Position=1
Service=ATM
ShelfID=11
SlotID=1
Type=Terminated
Version=U1_1_0_0
Width=STS3
Enetcli>
Enetcli>
915 }
Enetcli> showTemplate SPATH
ATMifName=<String>[TerminatedOnly]
Concatenated=<true:false>
Name=<String>
Operant=SPATH
Operator=<Create!Replace!Update!Delete>
PortID=<Integer><1-16>
Position=<Integer>
Service=<None:ATM>
ShelfID=<11[top],13[bottom]>
SlotID=<Integer><1-8>
Type=<Switched!Terminated>
Version=U1_1_0_0
Width=<STS1:STS3:STS12:STS48
Enetcli>
916 }
Enetcli>
917 }
Enetcli> status
918 }
Not currently connected to server
919 }
Supporting templates: CONTROL, PUC, SPATH, SPUC, TD, and UAIIF
Enetcli>
920 }

Fig.3i

Fig. 3j



F.3K

Command Prompt [2] - enetcli

```
Enetcli>
Enetcli> showCurrent CONTROL
Input=Q:\nmc\con\equipecon\nms\utils\enetcli
Interactive=false
Operant=CONTROL
Operator=Manage
Output=Q:\nmc\con\equipecon\nms\utils\enetcli
Password=None
System=192.168.9.202
User=None
Version=01_1_0_0
Server=localhost
Enetcli>
```

9239

Fig. 3L

924 BATCH

Operant=BATCH

Operator=Execute

Version=V1_1_0_0

924a—Task1=execute-SPATH

924b—Task2=execute-PVC

924c—Task3=execute-SPVC

924d—Task4=load-SPVC-spvc1

924e—Task5=execute-SPVC

924f—Task6=load-SPVC-spvc2

924g—Task7=execute-SPVC

924g—Task50=sct-SPATH-PortID-3

924h—Task51=execute-SPATH

924i—Task52=set-SPATH-SlotID-2

924j—Task53=execute-SPATH

Eq. 3M

K 925

Operant=BATCH

Operator=Execute

Version=V1_1_0_0

925a—Task1=execute-CONTROL

925b—Task2=execute-SPATH

925c—Task3=set-SPATH-PortID-3

925d—Task4=execute-SPATH

925e—Task61=set-CONTROL-System-192.168.9.201

925f—Task62=execute-CONTROL

925g—Task63=execute-SPATH

925h—Task108=close

925i—Task109=set-CONTROL-Server-Srvr1

925j—Task110=set-CONTROL-System-192.168.8.200

925k—Task111=execute-CONTROL

925l—Task112=execute-SPATH

925m
925n
925o
925p
925q
925r
925s
925t
925u
925v
925w
925x
925y
925z

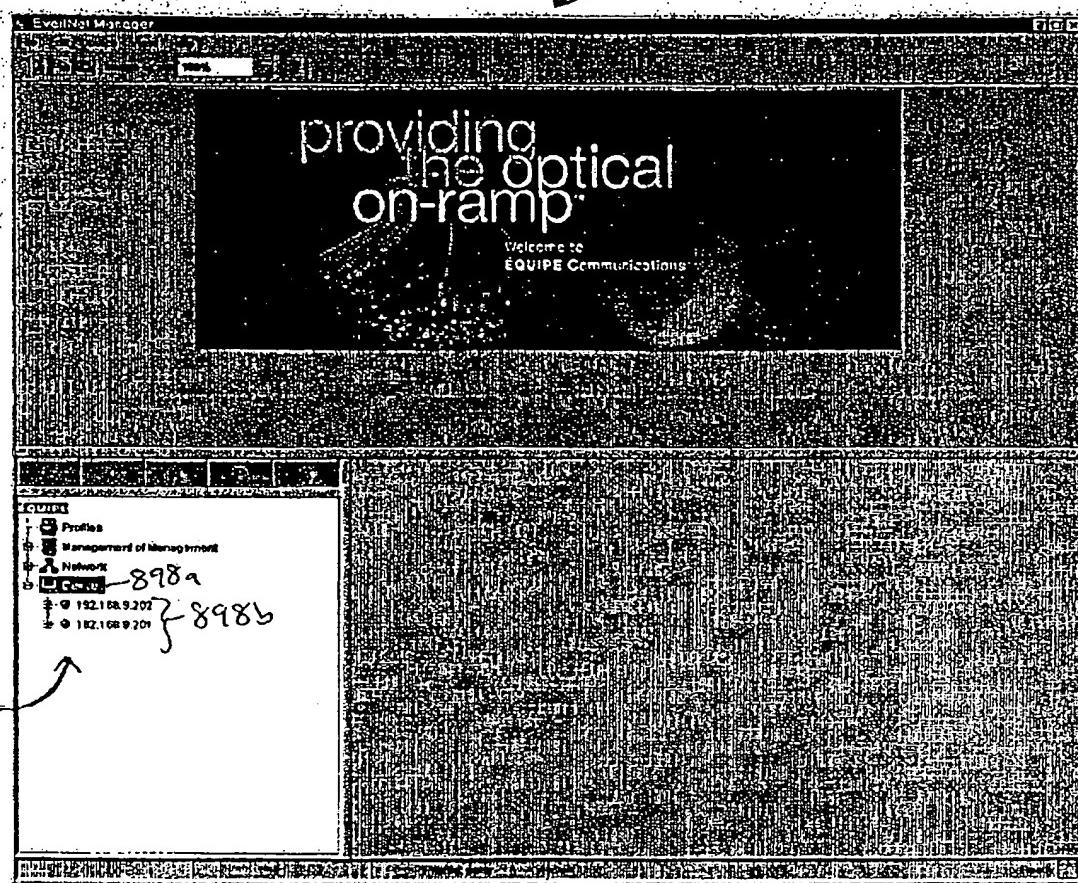


Fig.4a

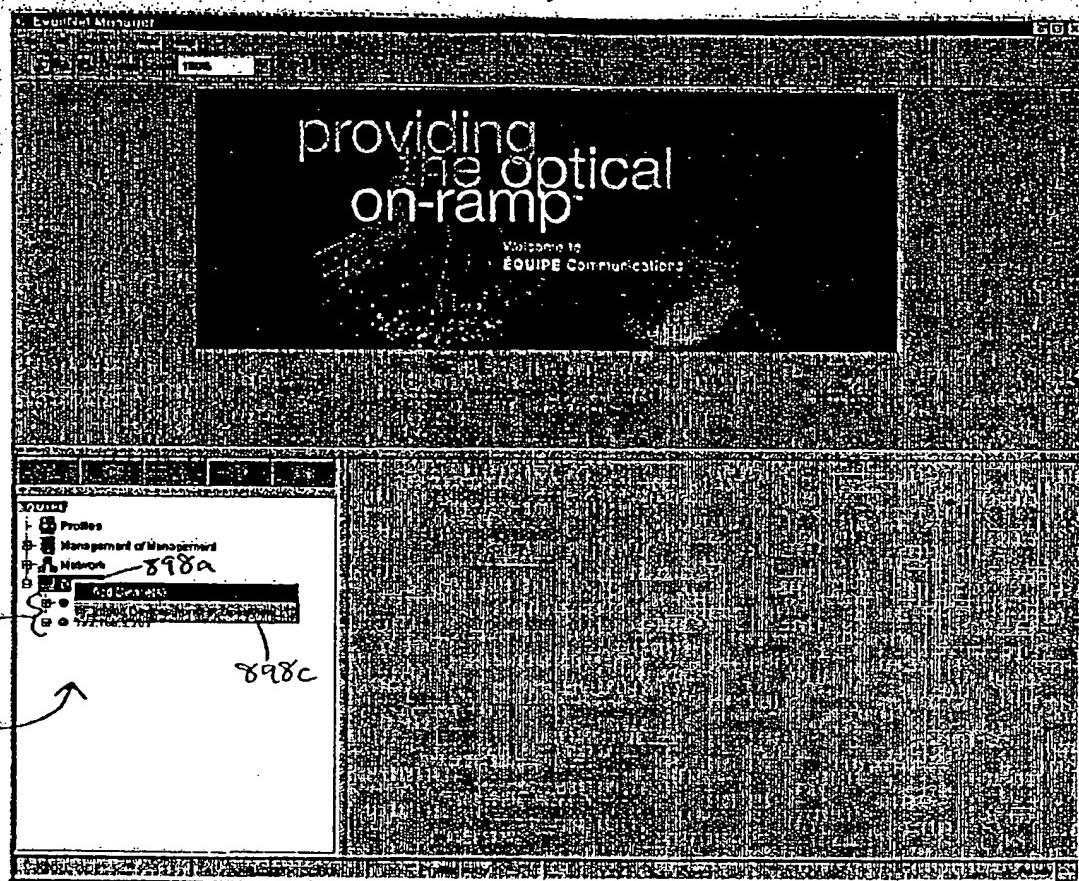
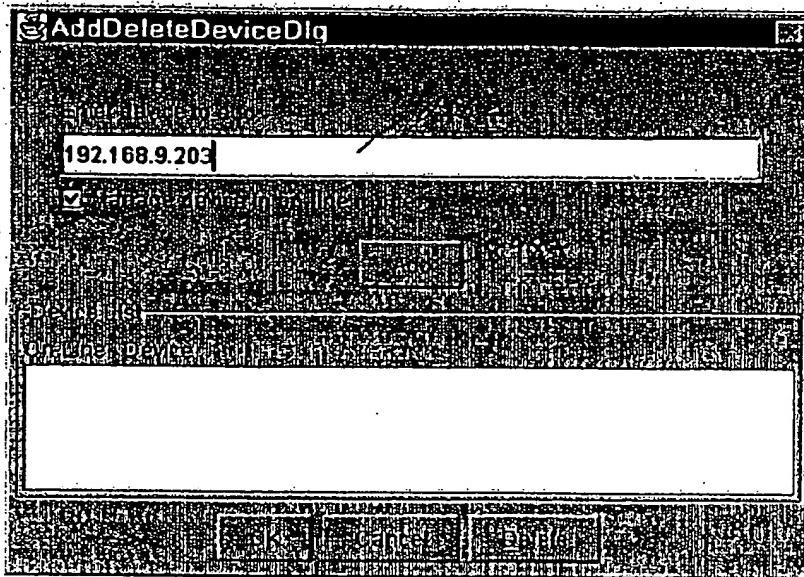


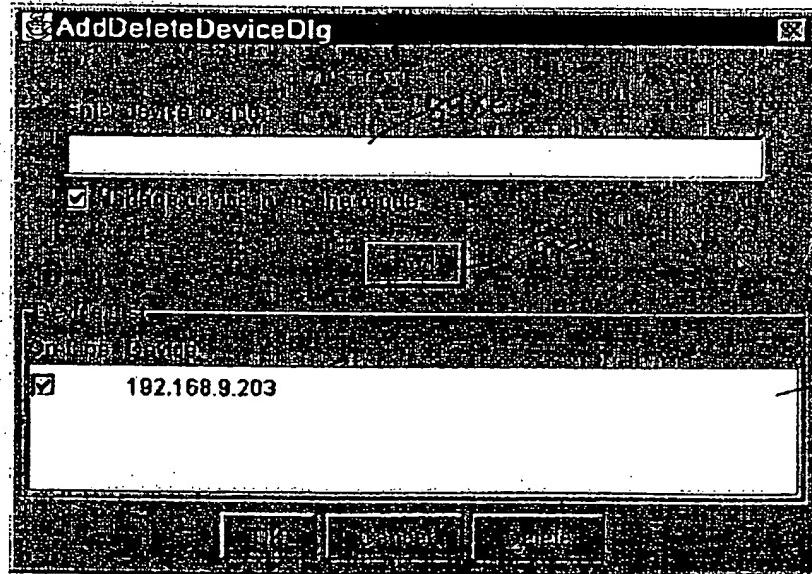
Fig. 4b

Fig.



898d

Fig. 4d



898d

898g

898j

898i

898h

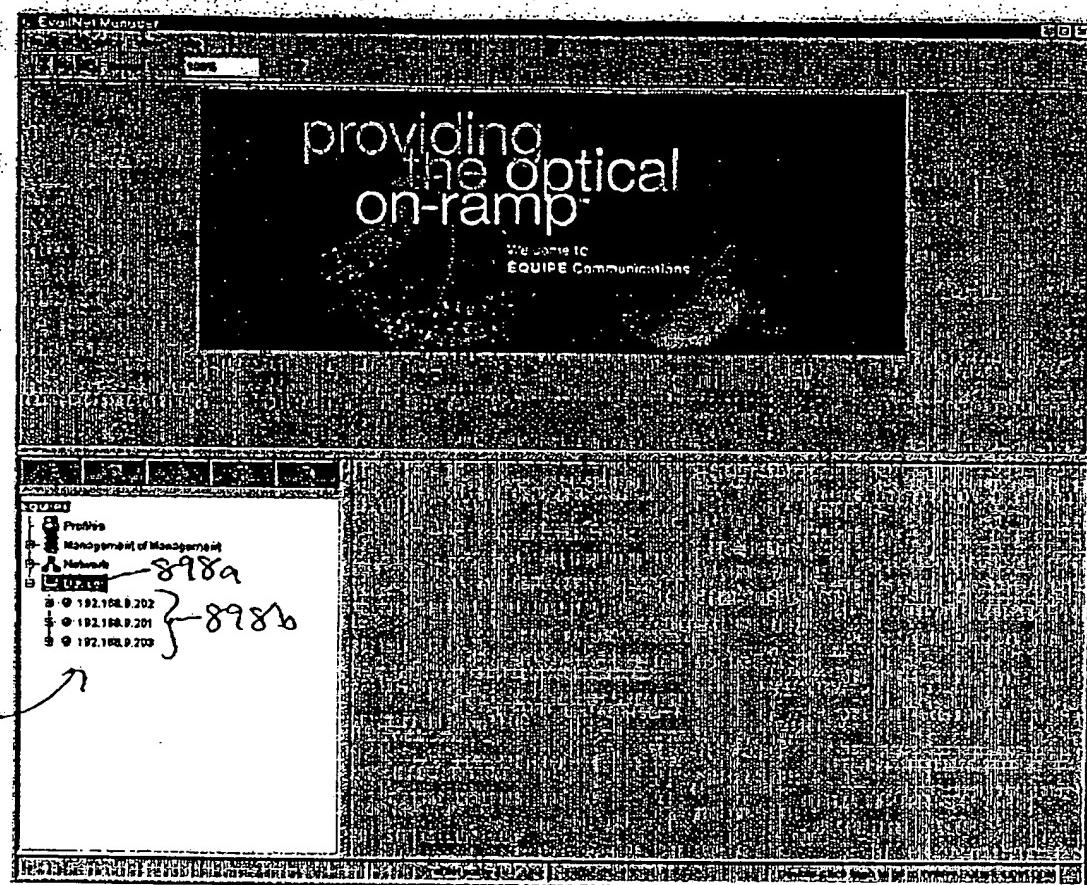


Fig. 4e

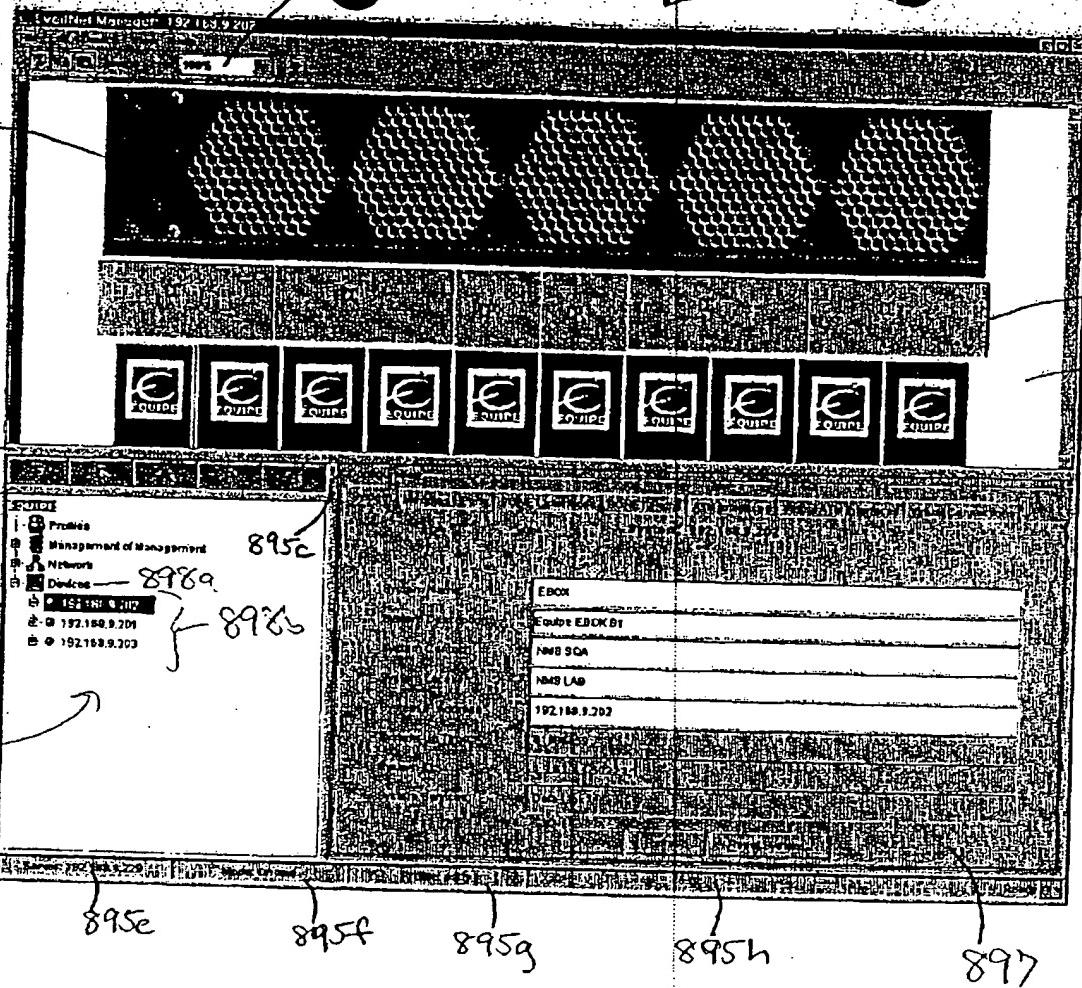


Fig. 4f

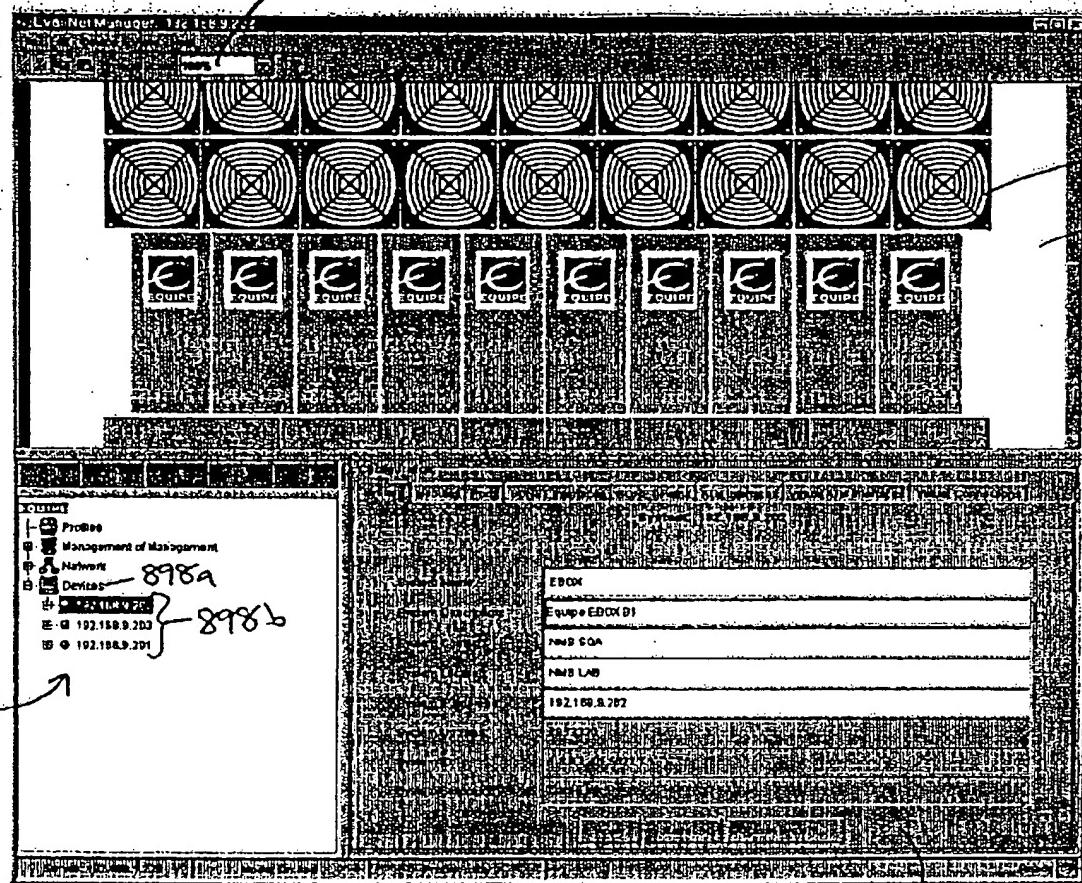


Fig. 4g

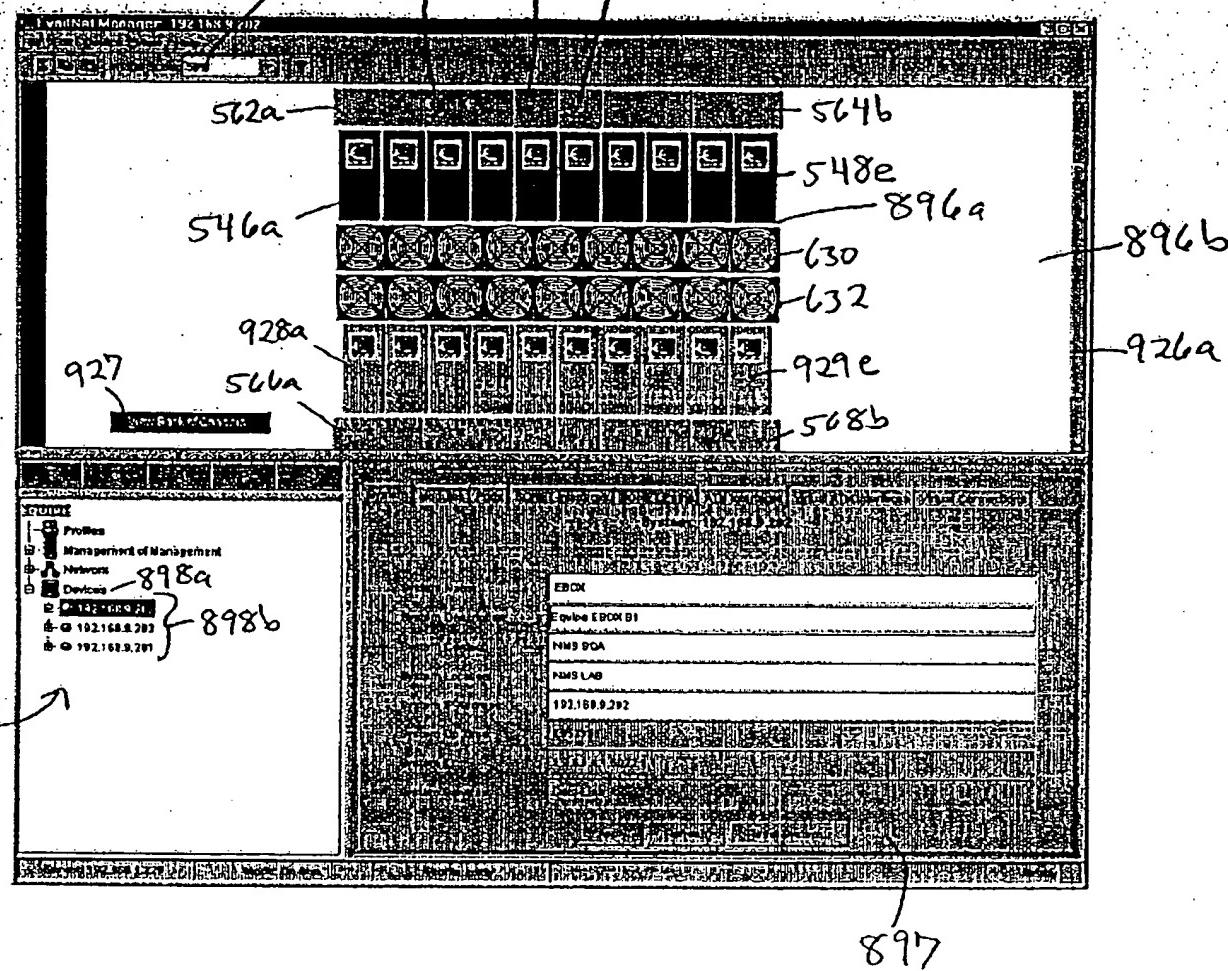


Fig. 4h

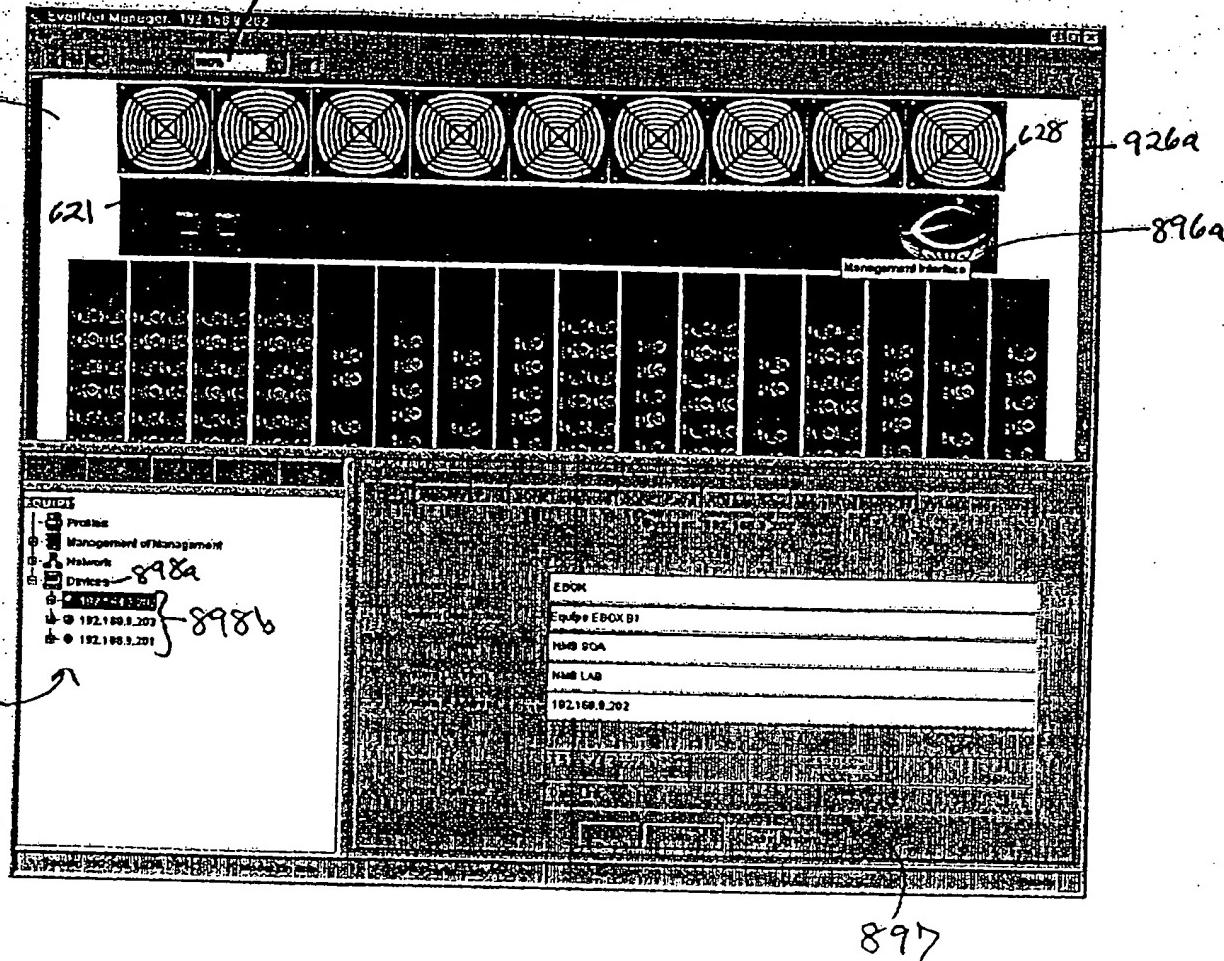


Fig. 4i

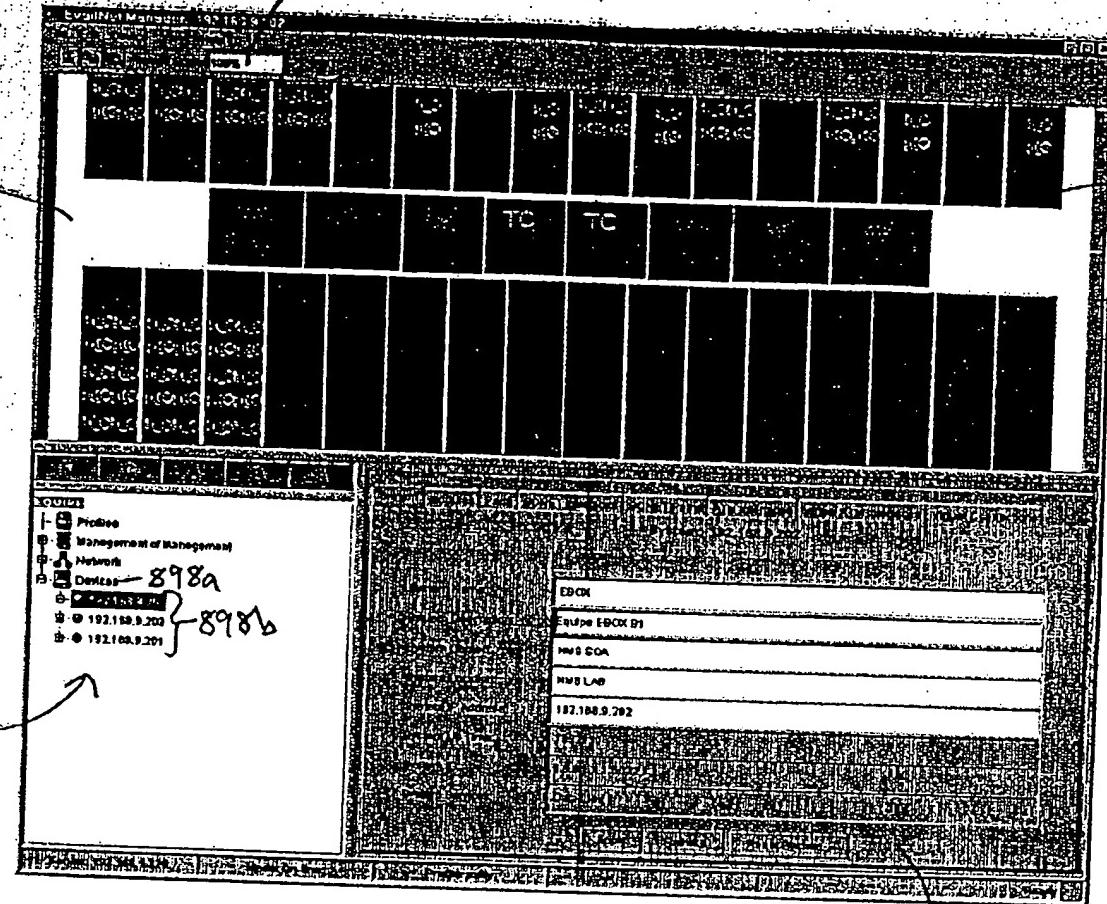


Fig. 4j

896b

920

895

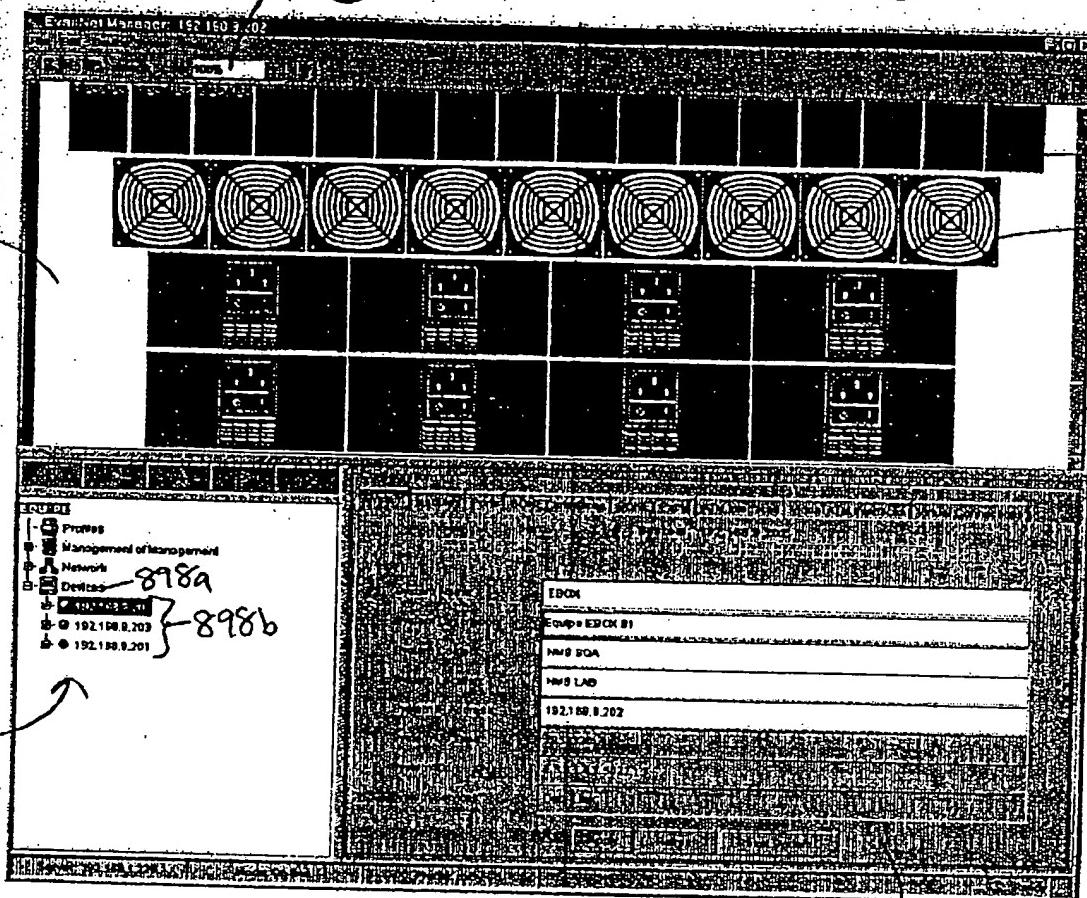


Fig. 4K

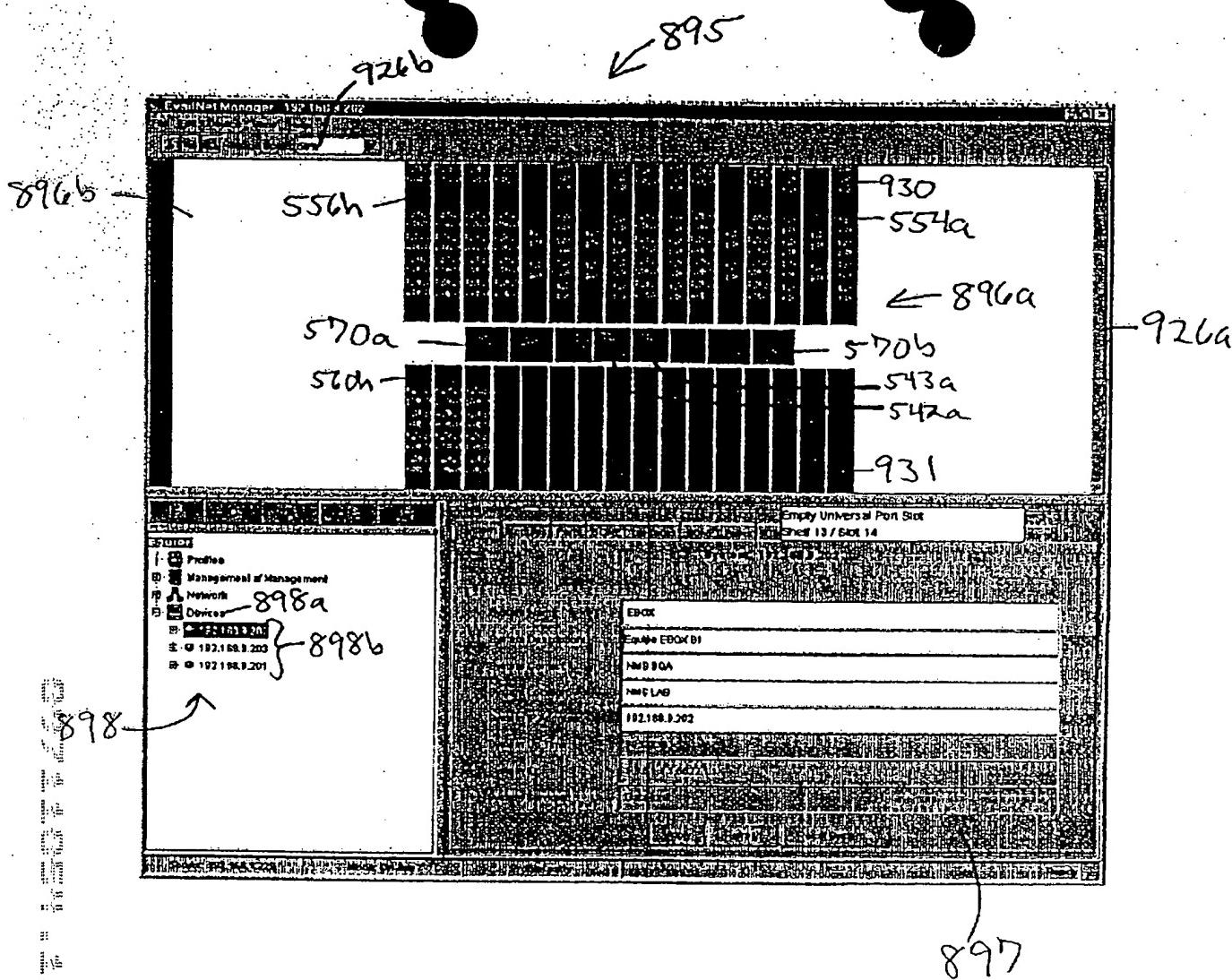


Fig. 4L

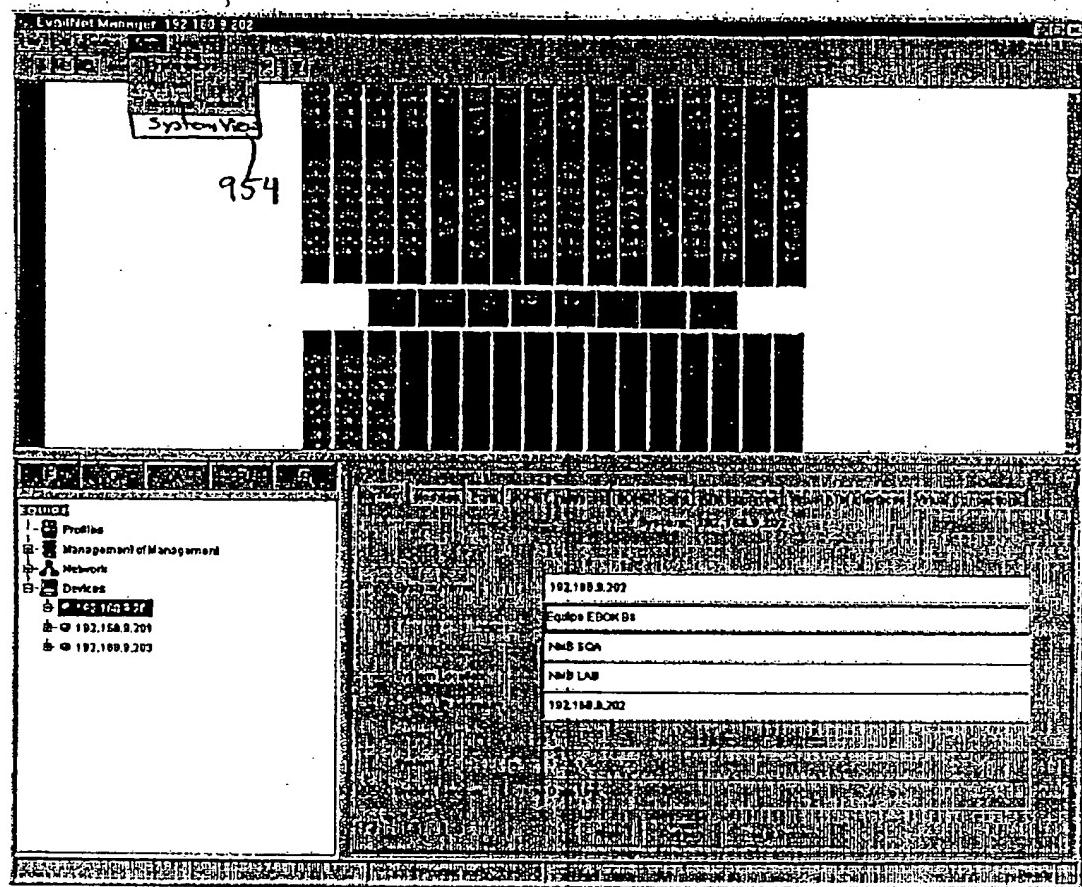
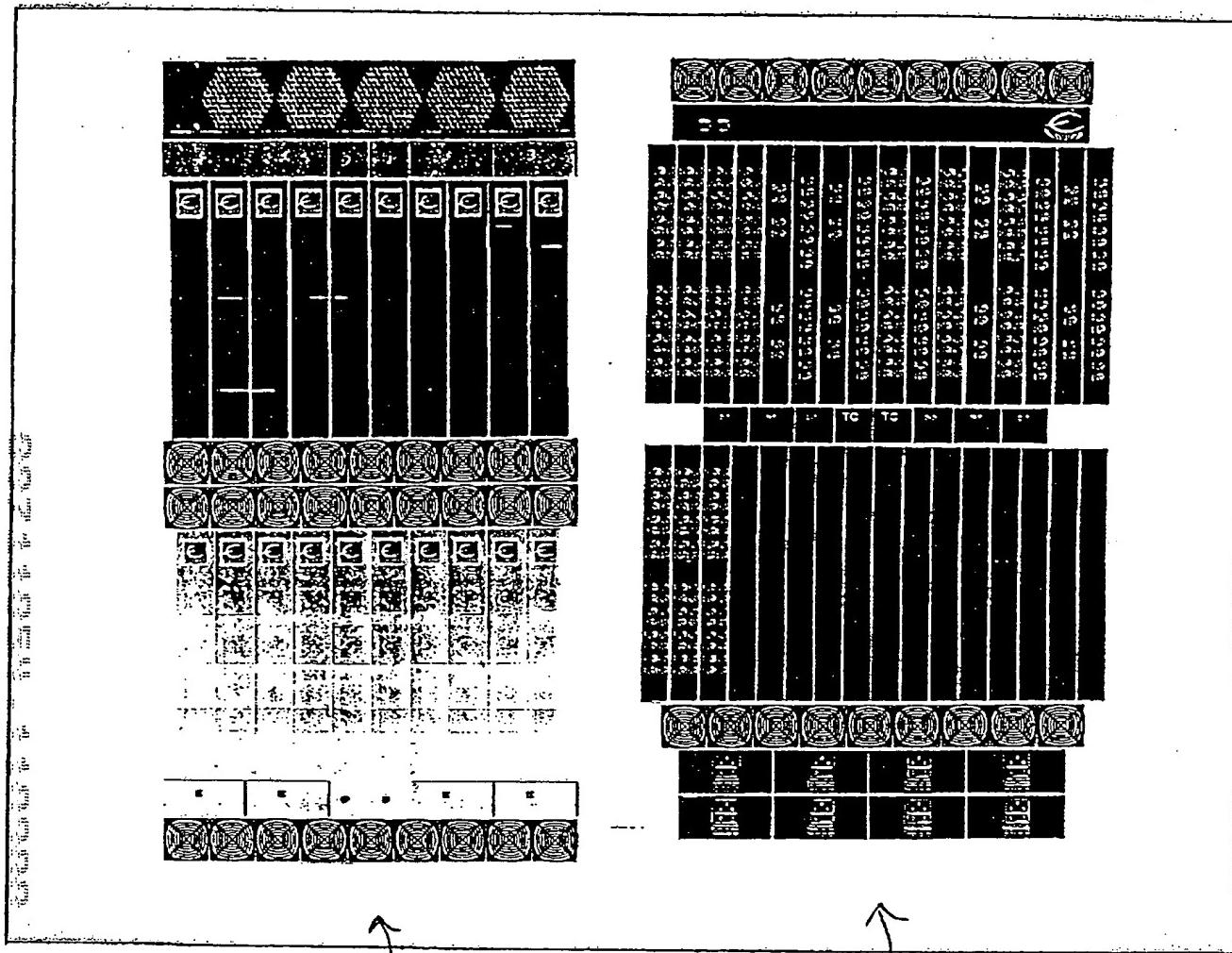


Fig. 4m

955



955a

955b

Fig. 4n

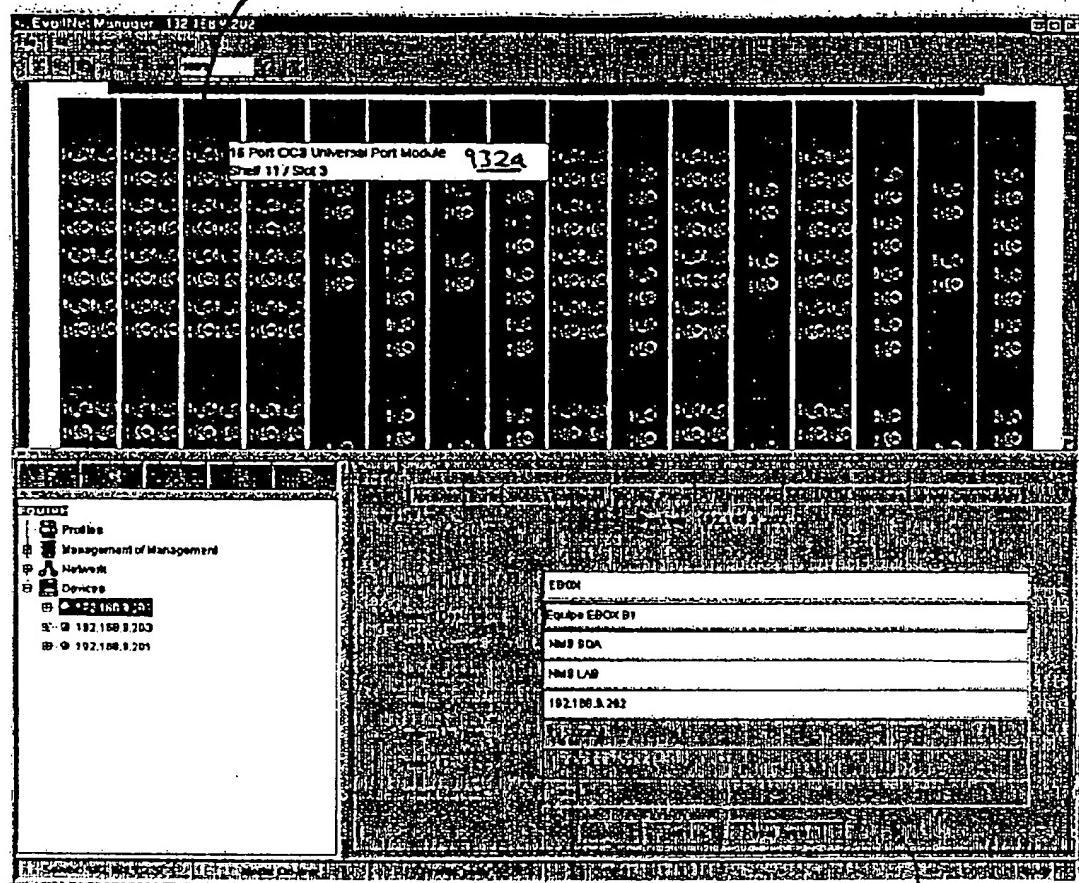
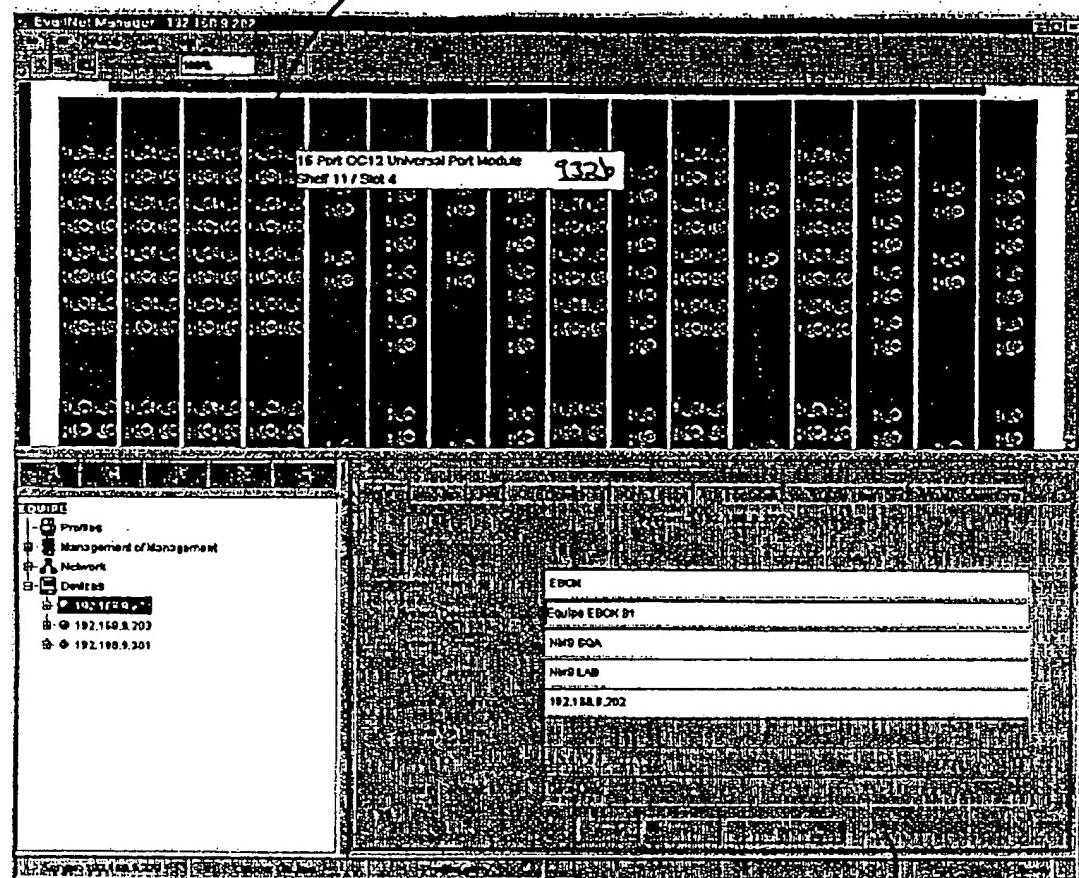
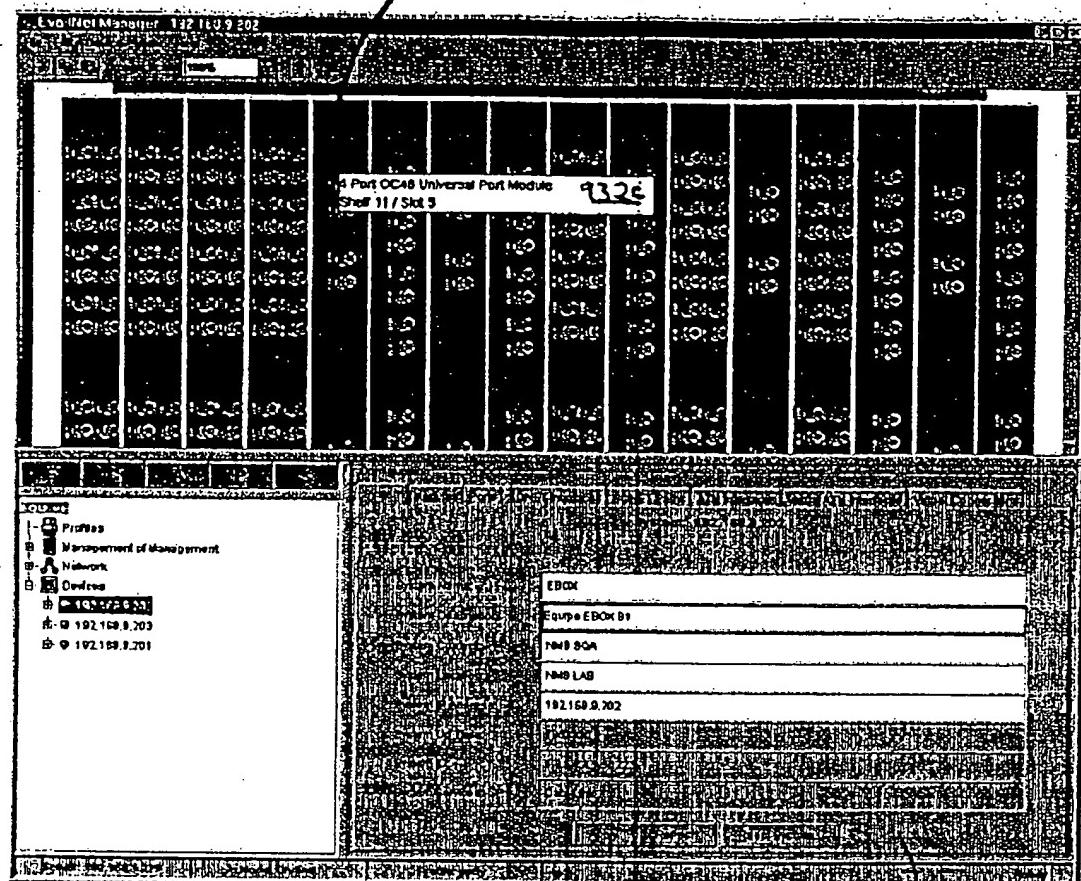


Fig.4o



897

Fig. 4P



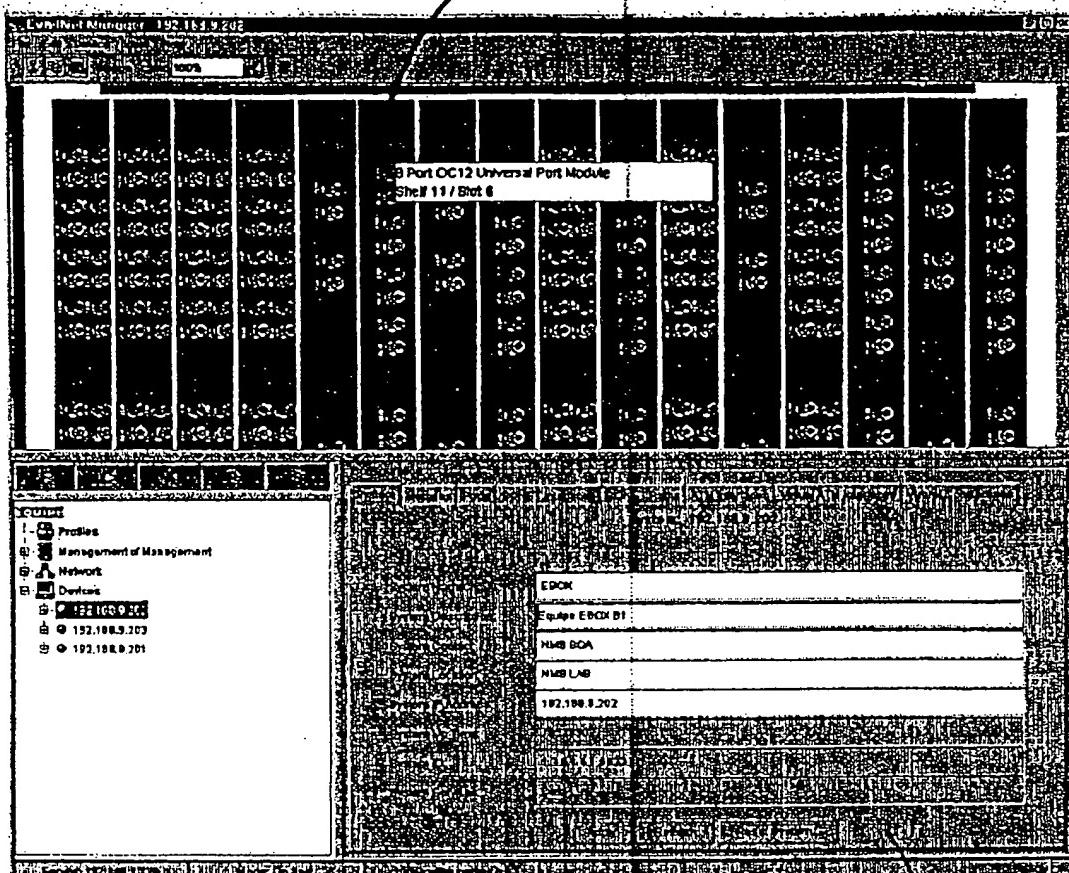


Fig. 41

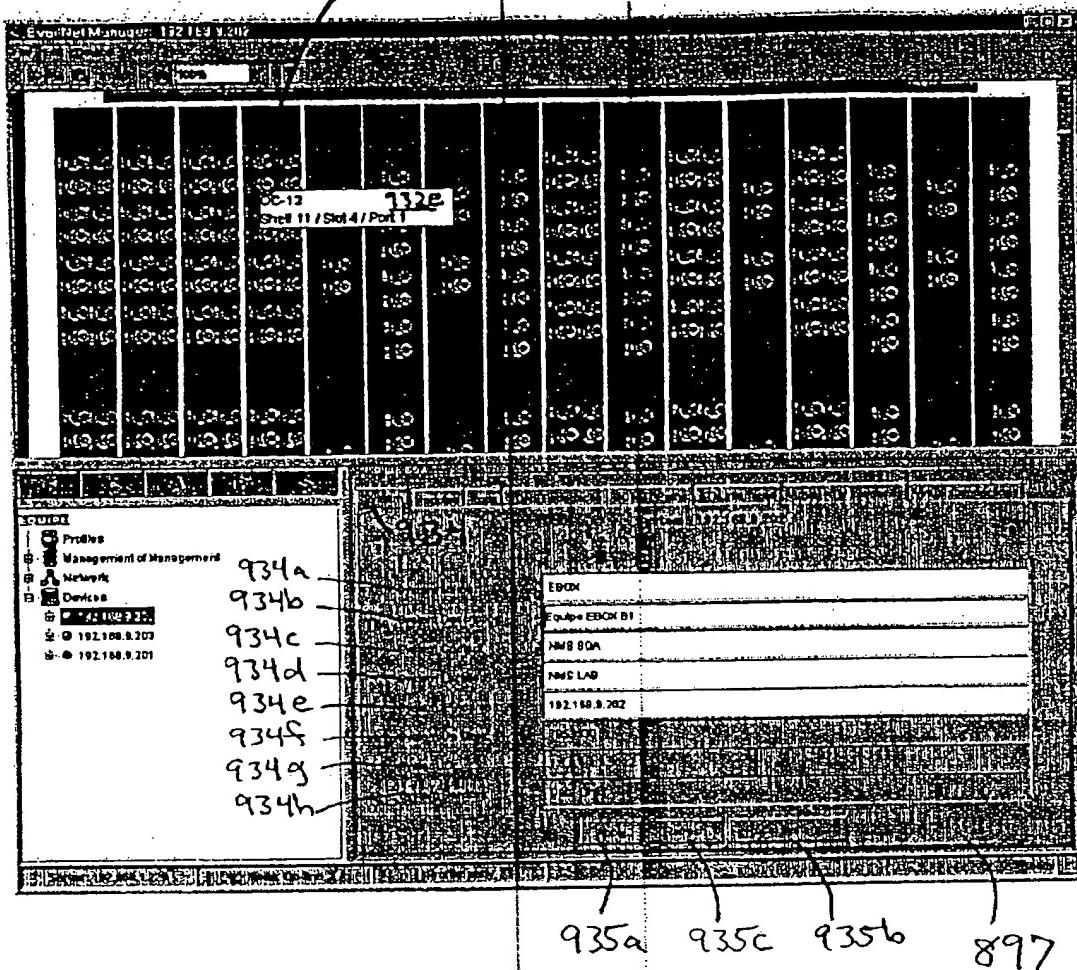
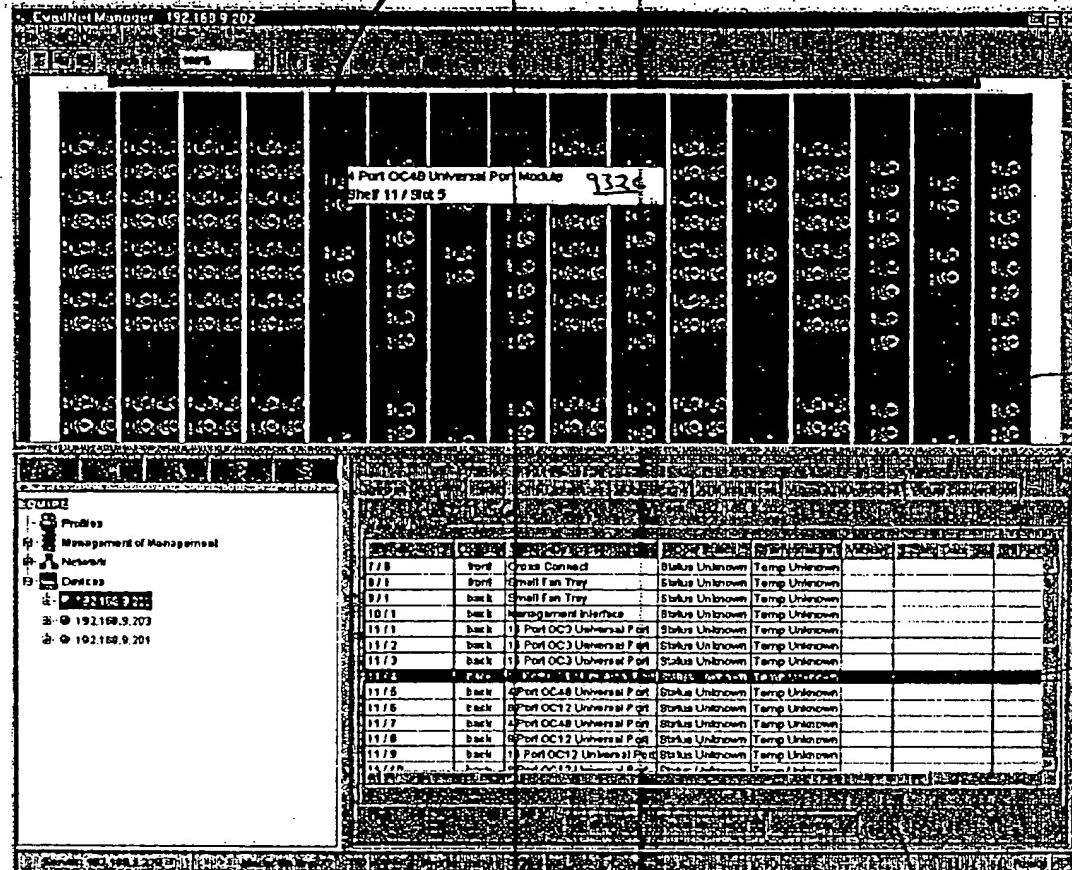


Fig. 4s

556d

895



-896a

-937

897

Fig. 4+

93% 56e ↴ 895

The screenshot shows a network management application window titled "EvilNet Manager 192.168.9.201". On the left, there's a navigation pane with sections like "Profiles", "Management of Management", "Network", and "Devices". Under "Devices", there are entries for "192.168.9.201" and "192.168.9.203". The main area displays a table of port information:

Port ID	Location	Link Layer Type	Link Layer Speed	Link Layer Duplex	Link Layer Status	Link Layer Speed	Link Layer Duplex	Link Layer Status
11/3/10	back	BONET Port 10	SONET	0 Mbps	Down	Unknown	Up	
11/3/11	back	Sonel Port 11	SONET	0 Mbps	Down	Unknown	Up	
11/3/12	back	Sonel Port 12	SONET	0 Mbps	Down	Unknown	Up	
11/3/13	back	Sonel Port 13	SONET	0 Mbps	Down	Unknown	Up	
11/3/14	back	Sonel Port 14	SONET	0 Mbps	Down	Unknown	Up	
11/3/15	back	Sonel Port 15	SONET	0 Mbps	Down	Unknown	Up	
11/3/16	back	Sonel Port 16	SONET	0 Mbps	Down	Unknown	Up	
11/3/17	back	Sonel Port 17	SONET	0 Mbps	Down	Unknown	Up	
11/3/18	back	Sonel Port 18	SONET	0 Mbps	Down	Unknown	Up	
11/3/19	back	Sonel Port 19	S SONET	0 Mbps	Down	Unknown	Up	
11/3/20	back	Sonel Port 20	SONET	0 Mbps	Down	Unknown	Up	
11/3/21	back	Sonel Port 21	SONET	0 Mbps	Down	Unknown	Up	
11/3/22	back	Sonel Port 22	SONET	0 Mbps	Down	Unknown	Up	
11/3/23	back	Sonel Port 23	SONET	0 Mbps	Down	Unknown	Up	
11/3/24	back	Sonel Port 24	SONET	0 Mbps	Down	Unknown	Up	
11/3/25	back	Sonel Port 25	SONET	0 Mbps	Down	Unknown	Up	
11/3/26	back	Sonel Port 26	SONET	0 Mbps	Down	Unknown	Up	
11/3/27	back	Sonel Port 27	SONET	0 Mbps	Down	Unknown	Up	

896a

939b

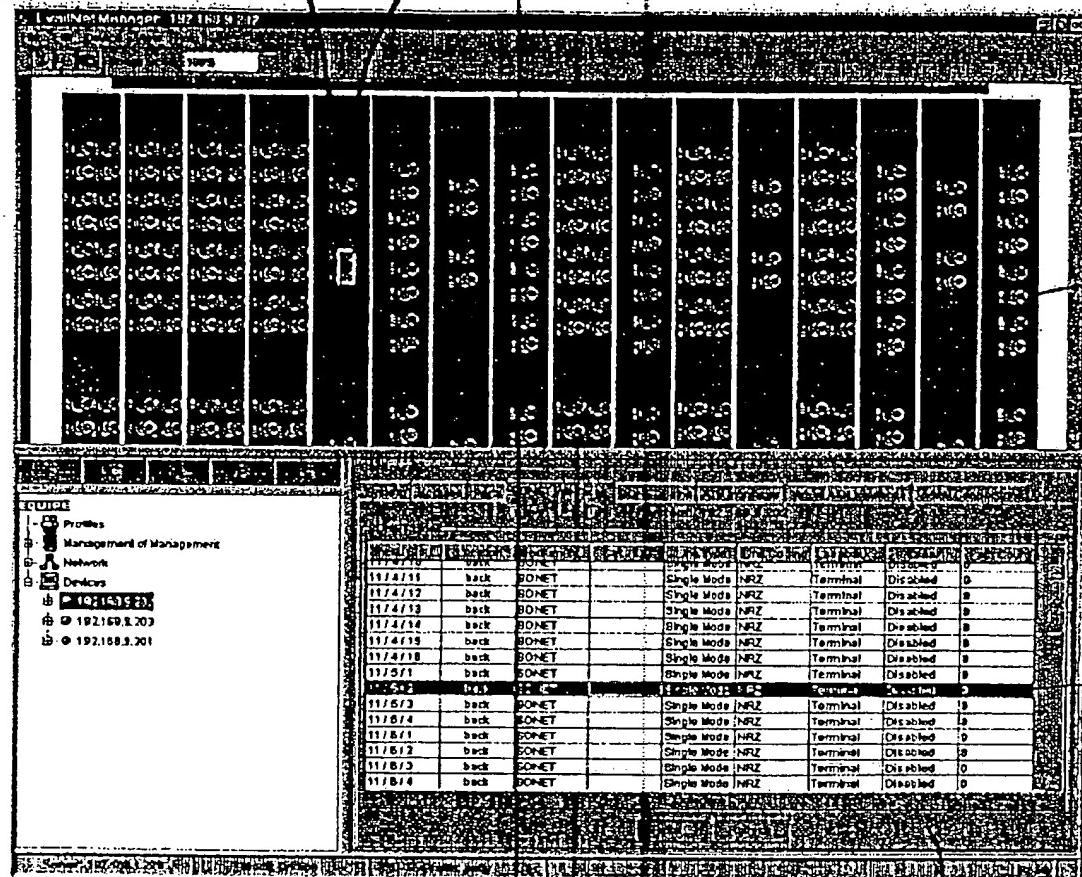
897

Fig.4u

556a 941a

941a

- 895 -



-896a

-9416

٨٩٧

Fig. 4v

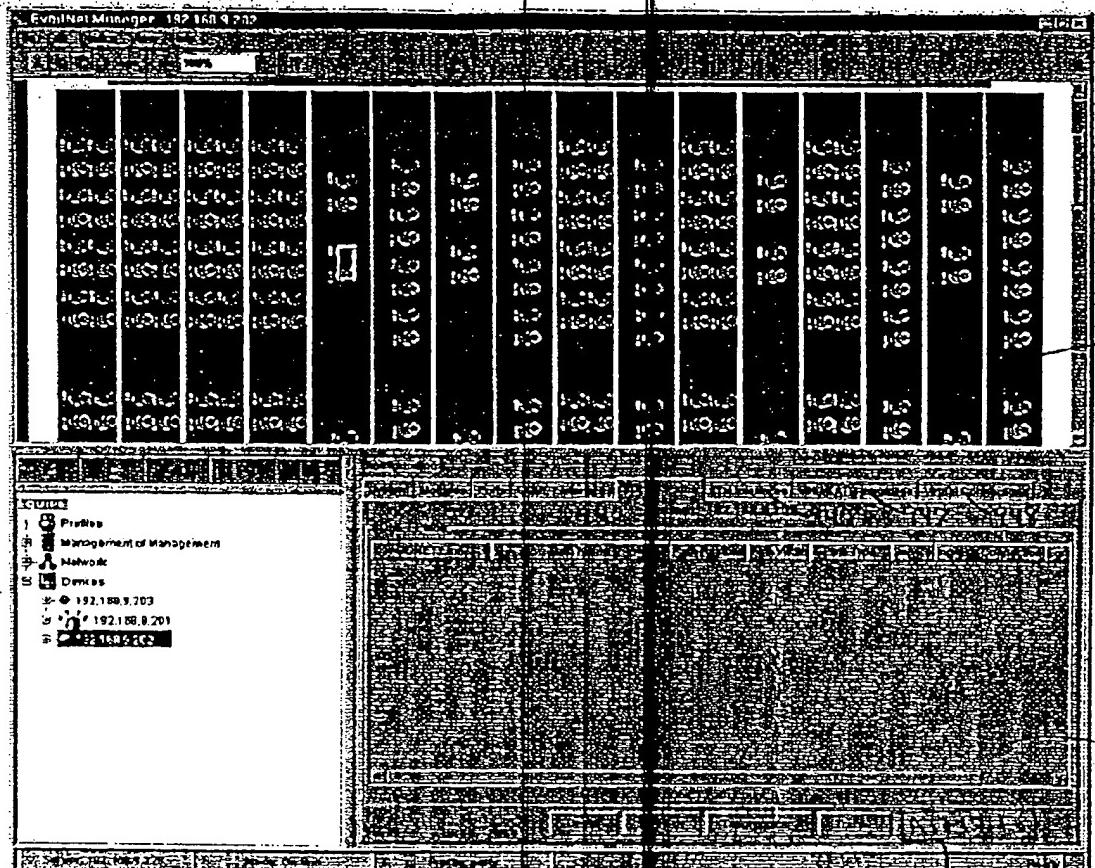


Fig. 4w

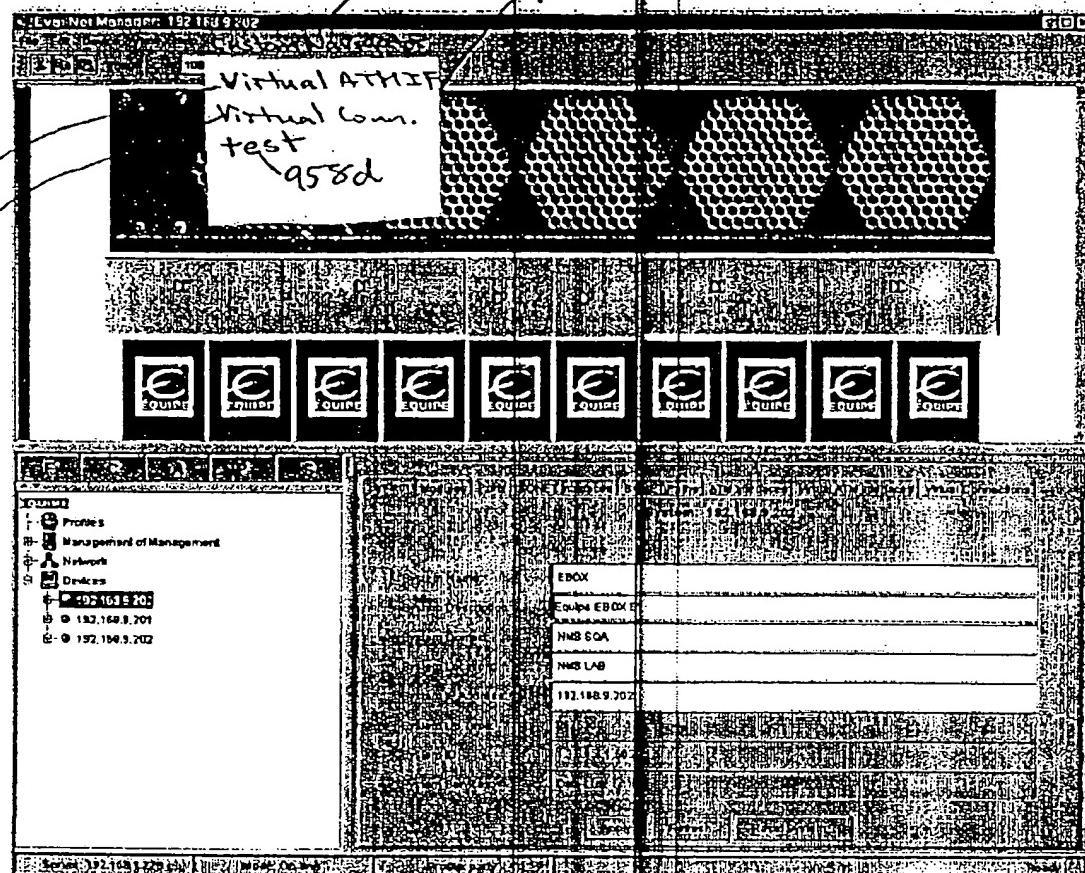


Fig. 4X

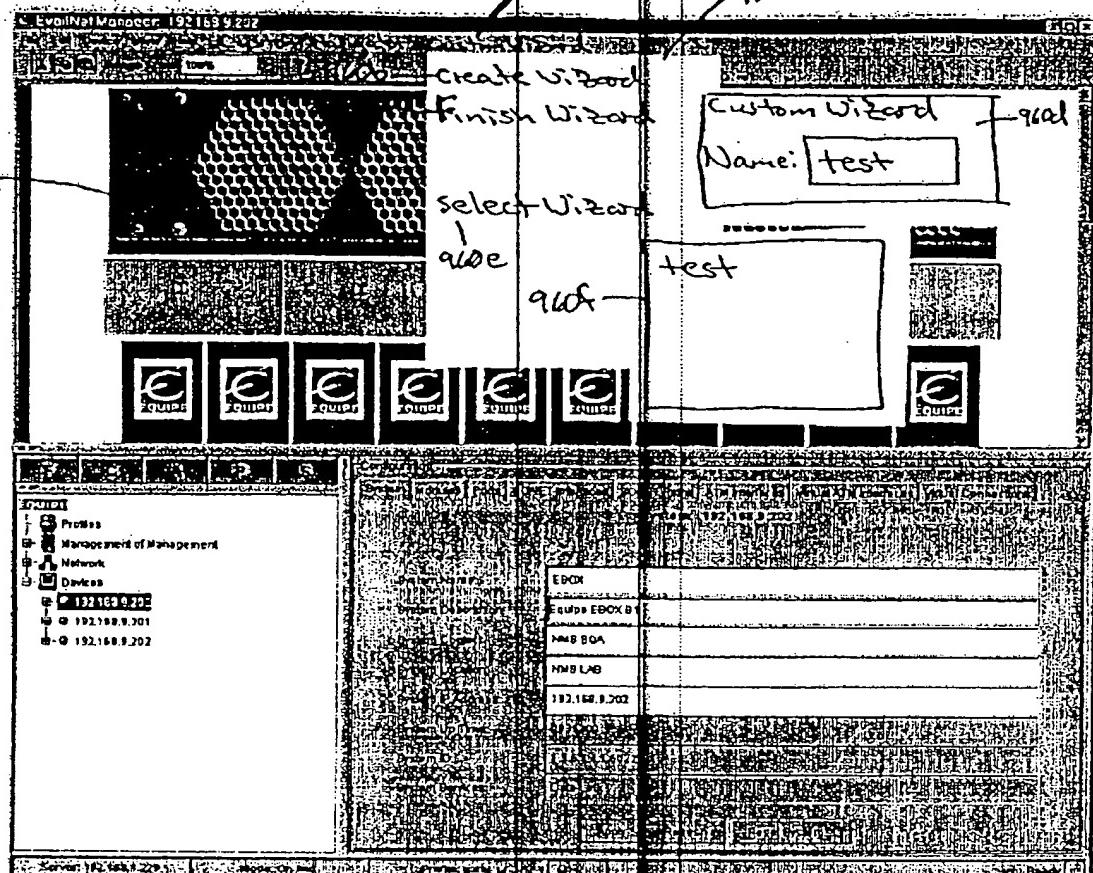


Fig. 4y

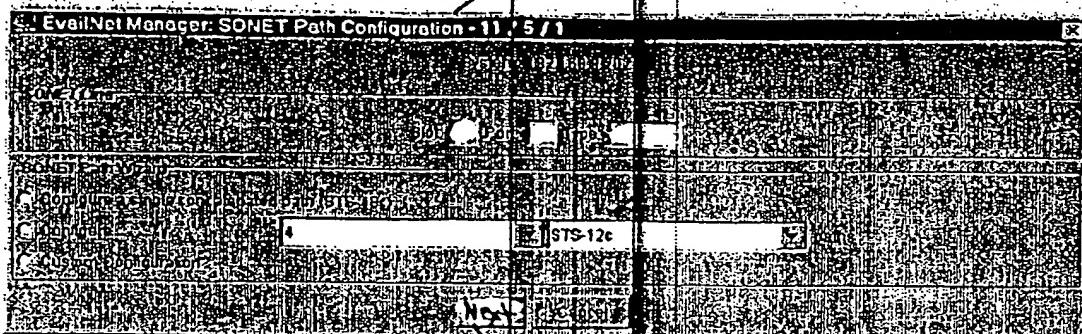


Fig. 4^c

939a 556e 943 895

896a

939b

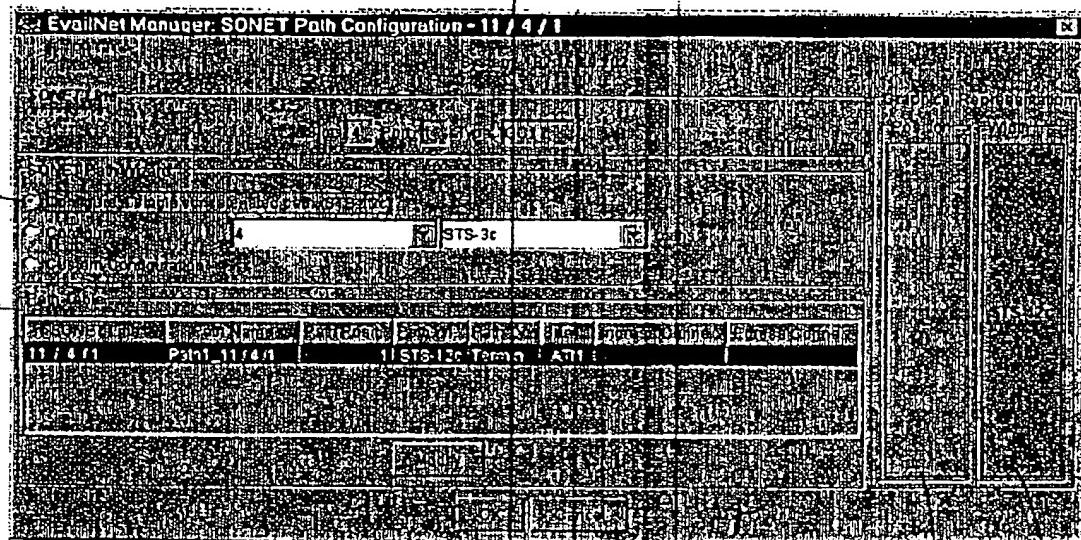
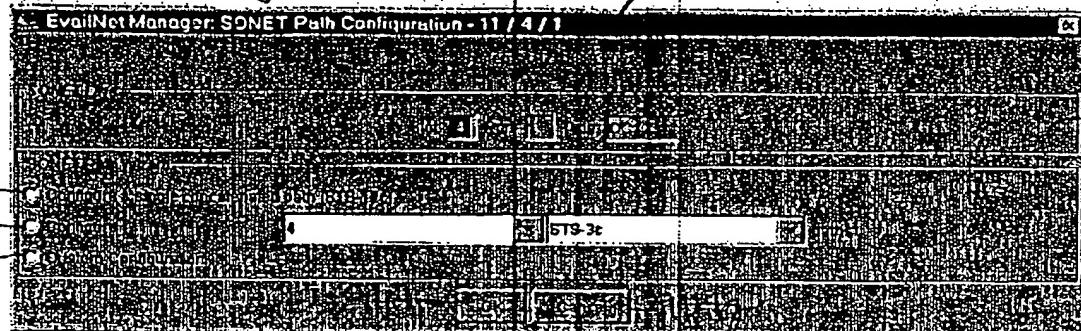
897

Port	Link Layer	Protocol	Speed	Link Status	Port Status	Link Type
11/4/1	back	Serial Port 1	SONET	0 Mbps	Down	Unknown Up
11/4/2	back	Serial Port 2	SONET	0 Mbps	Down	Unknown Up
11/4/3	back	Serial Port 3	SONET	0 Mbps	Down	Unknown Up
11/4/4	back	Serial Port 4	SONET	0 Mbps	Down	Unknown Up
11/4/5	back	Serial Port 5	SONET	0 Mbps	Down	Unknown Up
11/4/6	back	Serial Port 6	SONET	0 Mbps	Down	Unknown Up
11/4/7	back	Serial Port 7	SONET	0 Mbps	Down	Unknown Up
11/4/8	back	Serial Port 8	SONET	0 Mbps	Down	Unknown Up
11/4/9	back	Serial Port 9	SONET	0 Mbps	Down	Unknown Up
11/4/10	back	Serial Port 10	SONET	0 Mbps	Down	Unknown Up
11/4/11	back	Serial Port 11	SONET	0 Mbps	Down	Unknown Up
11/4/12	back	Serial Port 12	SONET	0 Mbps	Down	Unknown Up
11/4/13	back	Serial Port 13	SONET	0 Mbps	Down	Unknown Up
11/4/14	back	Serial Port 14	SONET	0 Mbps	Down	Unknown Up

Fig. 5a

Fig. 5b

944



944

944e 944f

Fig. 5c

ca. 5d

- 944

944a

9445

9441a

SONET Path Configuration - 11 / 4 / 1						
Path ID	Port ID	Port Type	Termination	ATM	SPW	Comments
11 / 4 / 1	Path1_11 / ..	1	STS-3c	Terminated	ATM	
11 / 4 / 1	Path2_11 / ..	4	STS-3c	Terminated	ATM	
11 / 4 / 1	Path3_11 / ..	7	STS-3c	Terminated	ATM	
11 / 4 / 1	Path4_11 / ..	10	STS-3c	Terminated	ATM	

-944f
944e

944-
a

94

944q -

The screenshot shows the AvailNet Manager SONET Path Configuration interface. At the top, a navigation bar displays "AvailNet Manager: SONET Path Configuration - 11 / 4 / 1". The main area contains a table with two rows. The first row has columns for "SONET Path ID", "Source Node", "Termination Node", and "Status". The second row shows a specific path entry: "1", "EFM1_111", "ATM", and "Terminated". A large red box highlights this row. Below the table, there is a message "No more paths found" and a "Close" button.

944

944e 944f

Fig. 5c

Fig. 5f

944

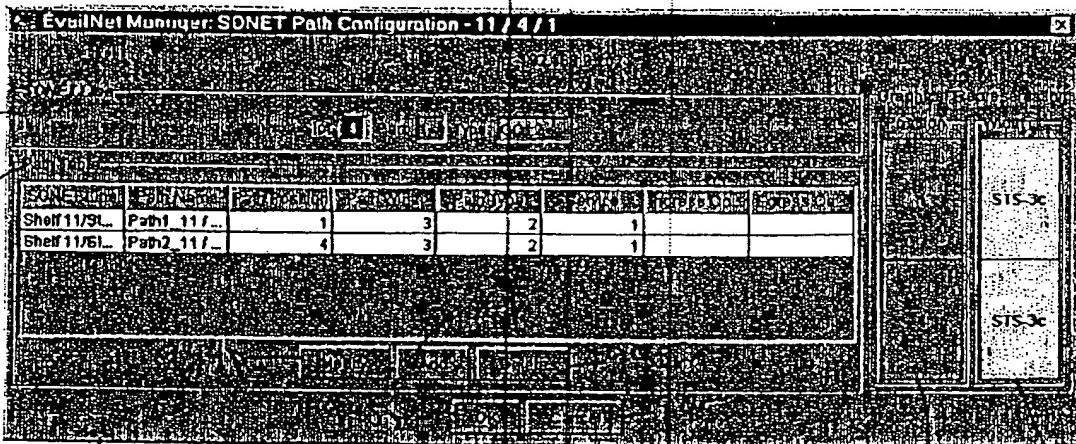
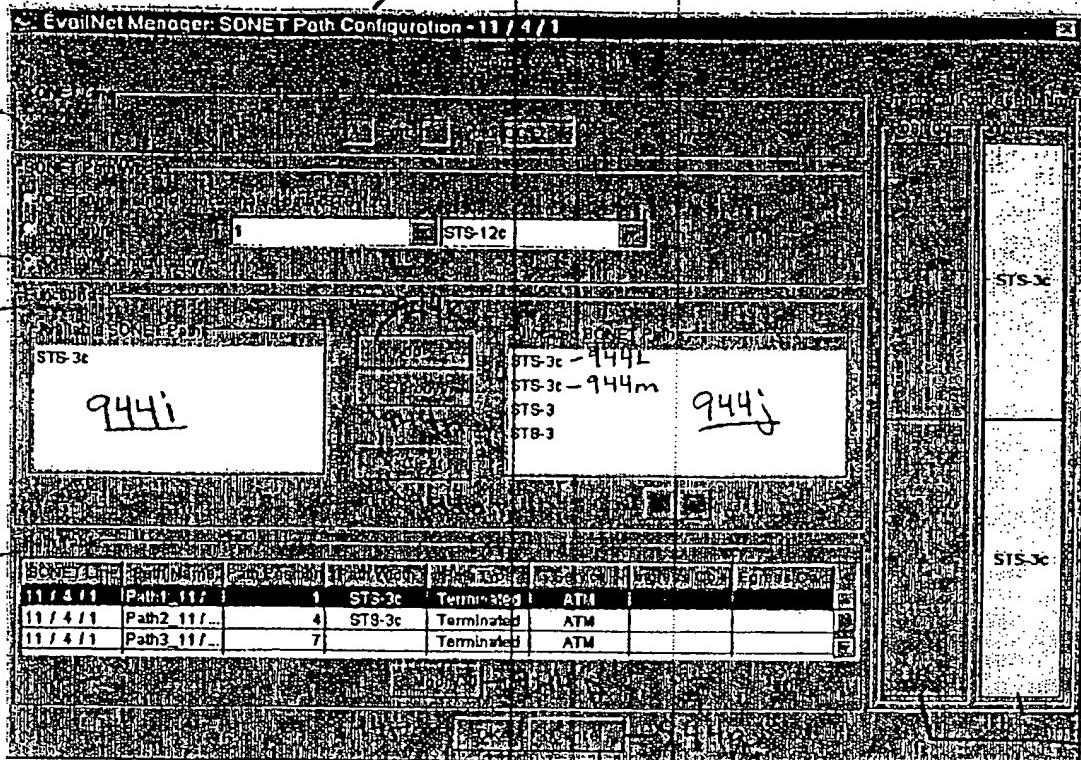


Fig. 5g

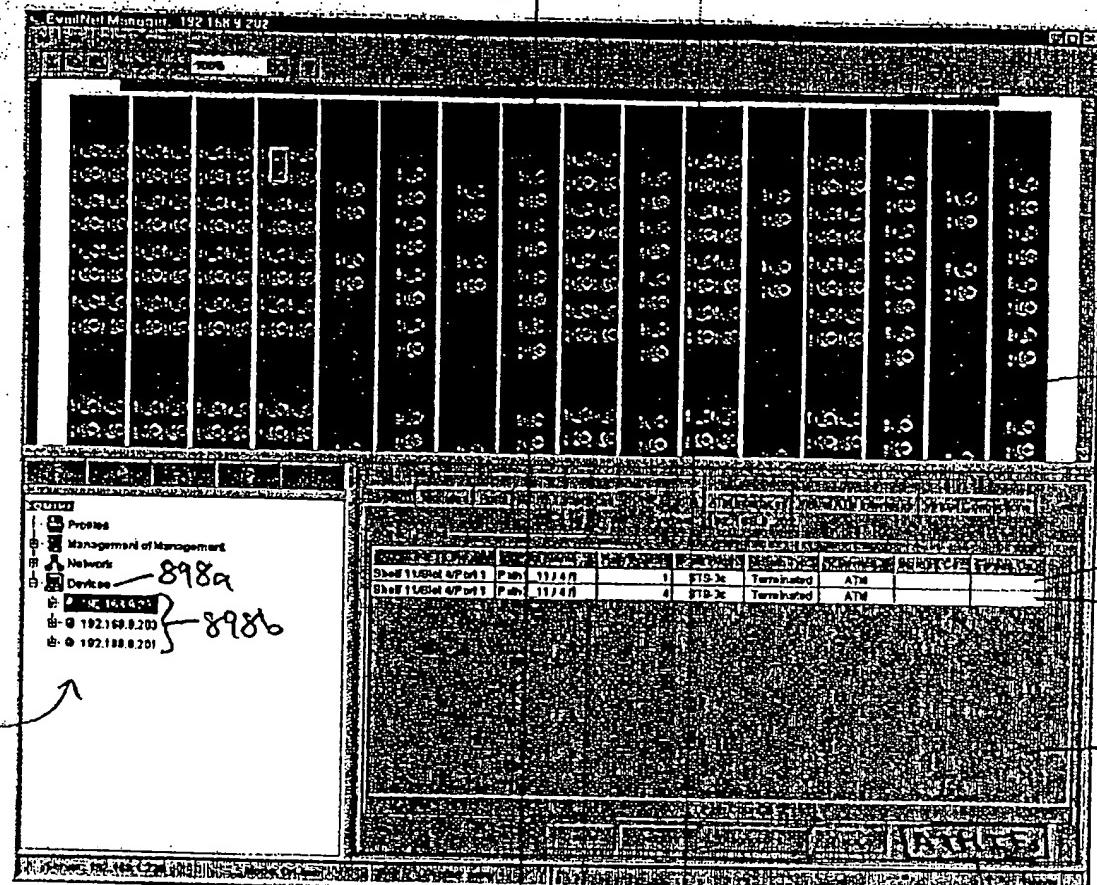


Fig.5h

942c

895

The screenshot shows a software window titled "EvniNet Manager 192.168.5.202". The main area displays a table with columns: Name, IP Address, MAC Address, Port, and Status. The table contains 16 rows of data. Below the table is a legend with icons for Router, Switch, and Firewall. To the left, a sidebar titled "Sources" lists "Profiles", "Management of Management", "Network", and "Devices". Under "Devices", there is a section for "192.168.5.202" with three entries: "192.168.5.202", "192.168.5.203", and "192.168.5.204". A handwritten note "898a" is next to the first entry, and "898b" is next to the second. Handwritten arrows point from "898a" to the first row of the table and from "898b" to the second row. In the bottom right corner of the table area, there are handwritten numbers "9469" and "9466". In the bottom right corner of the entire screenshot, there is a handwritten number "897".

946h

Fig. 5i

Fig. 5j

550

941a

-895

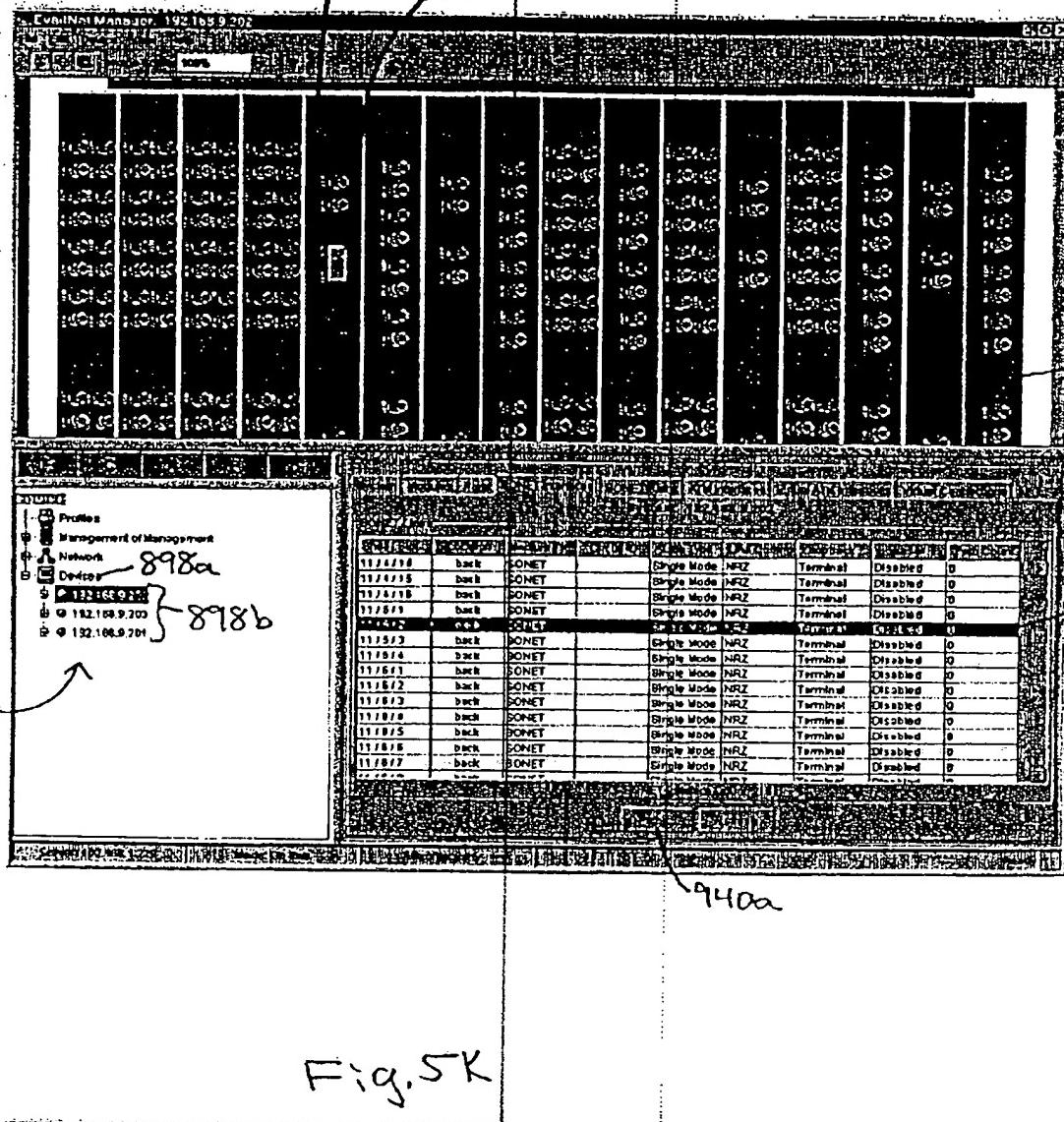


Fig. 5K

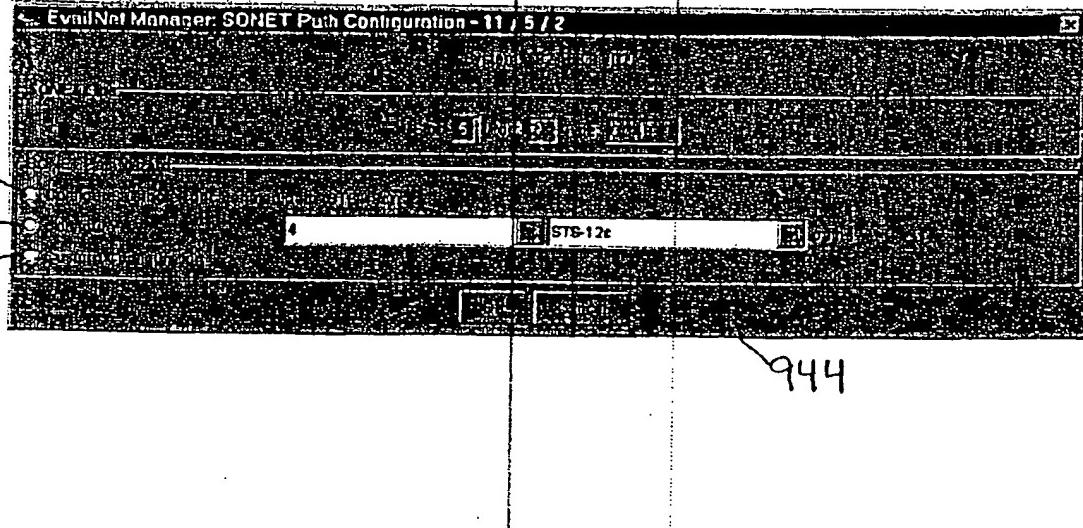


Fig. 5

944

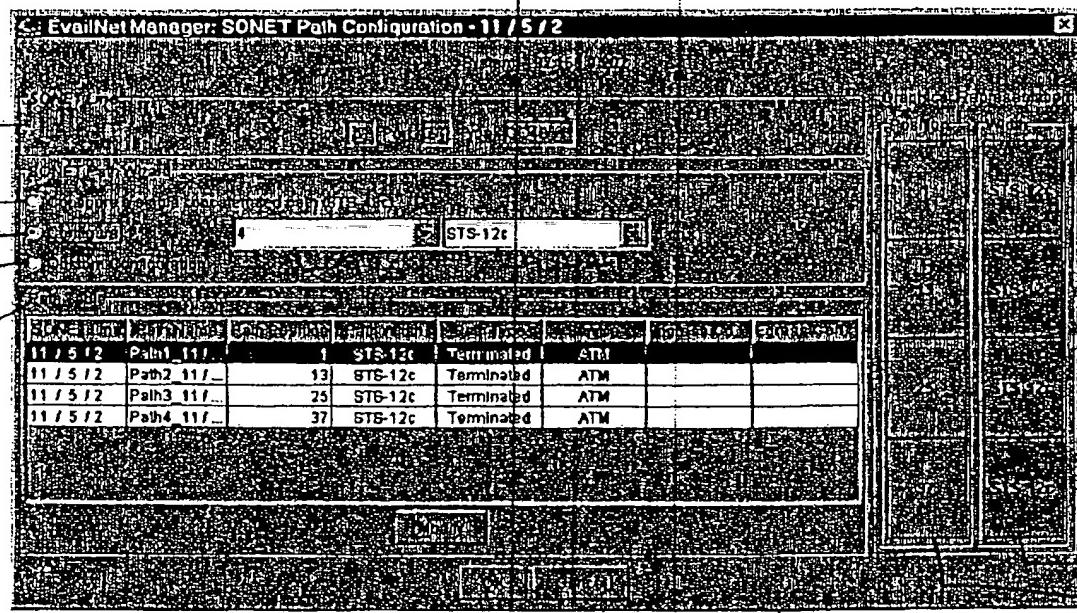
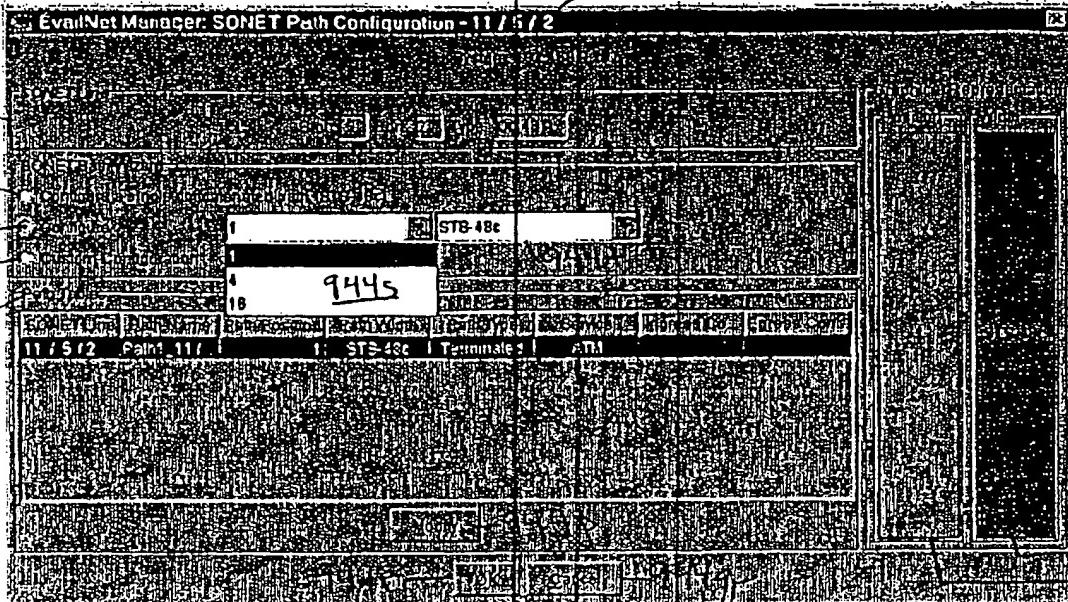
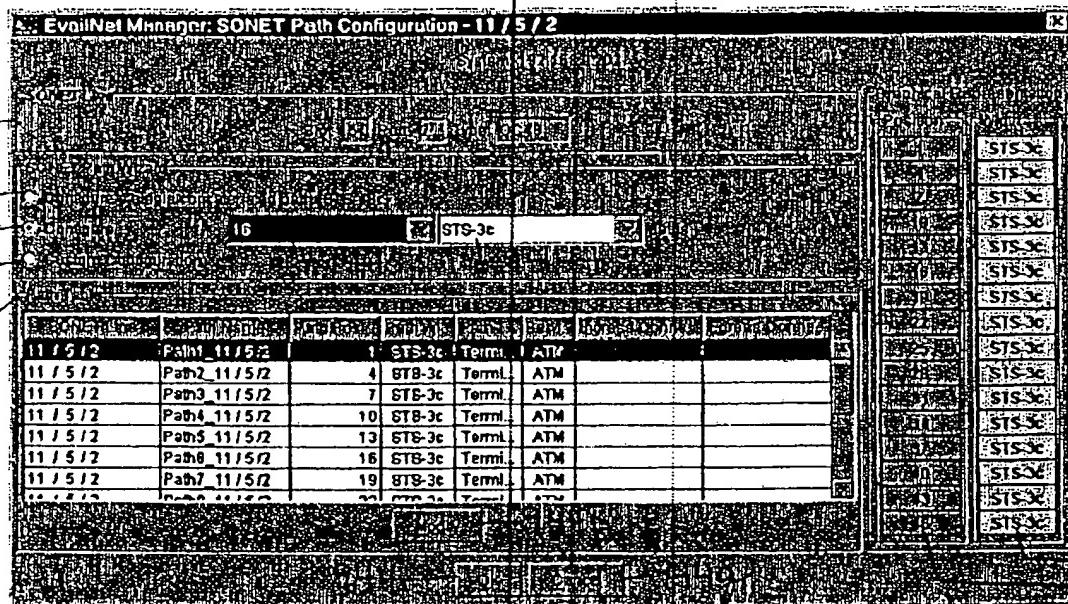
944f
944e944f
944e

Fig. 5m

944

5n

944

944f
944e944f
944e

944

Fig. 50

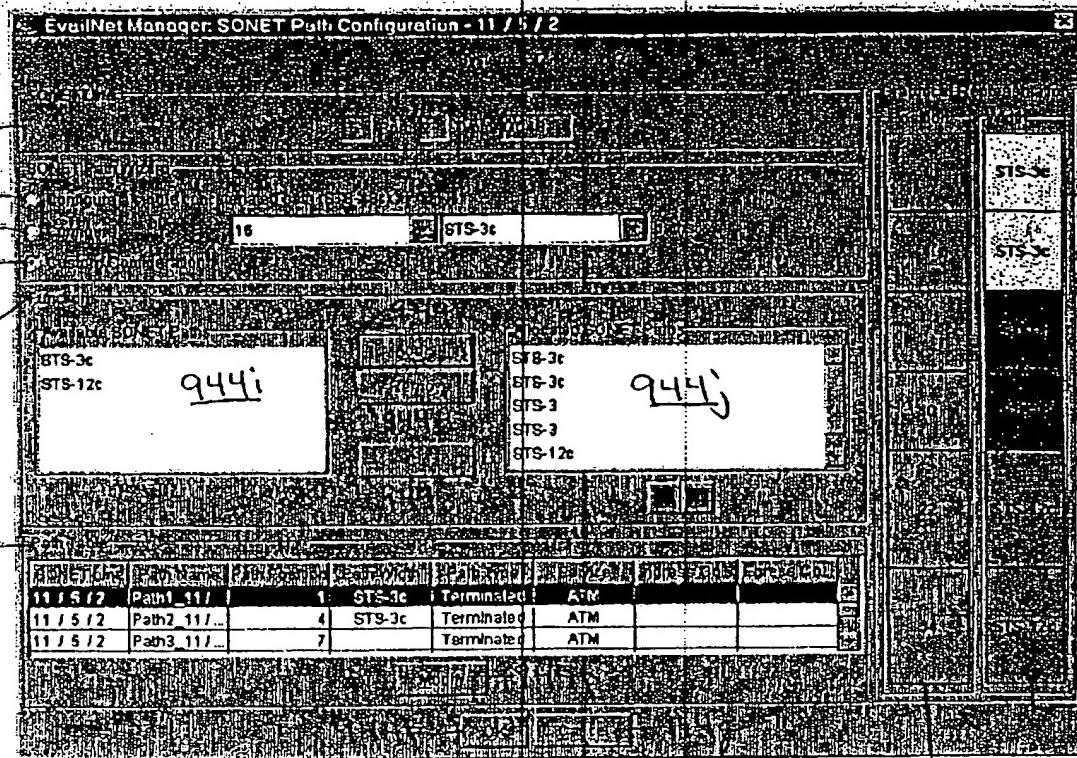


Fig. 5P

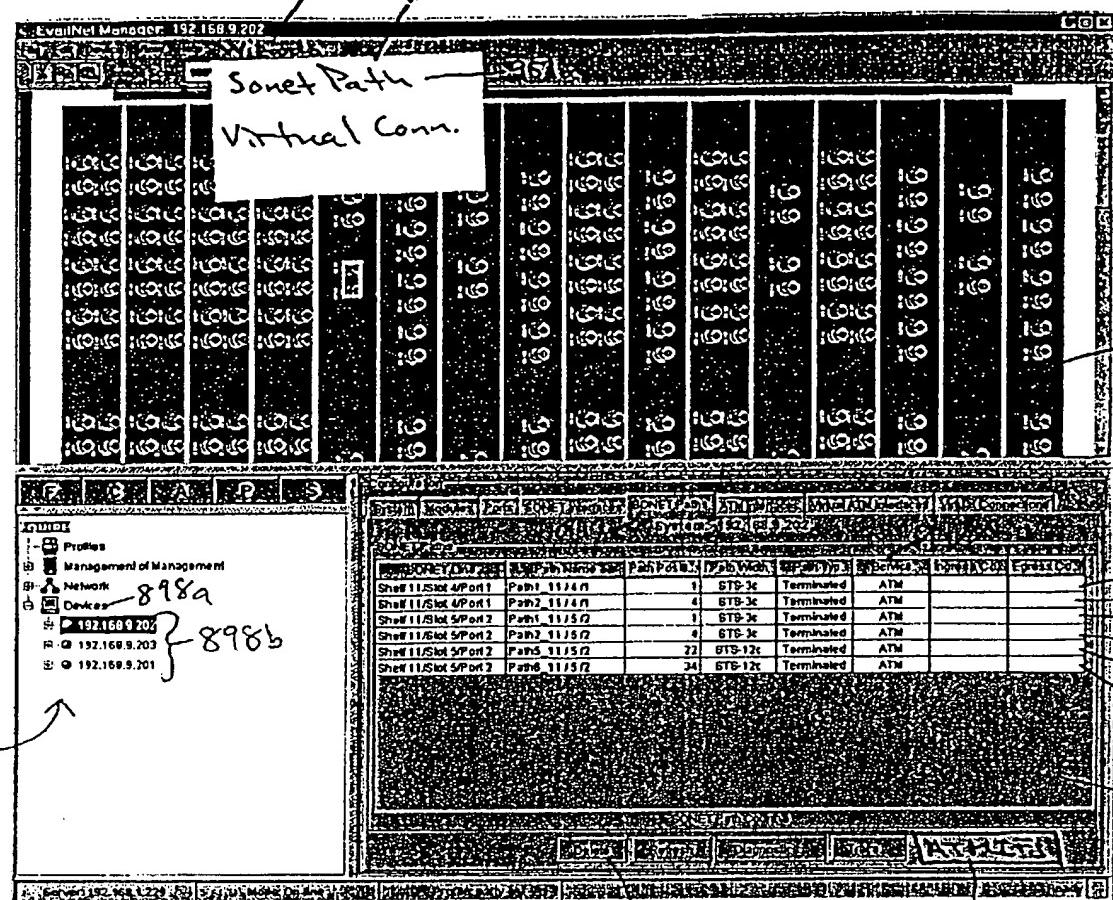
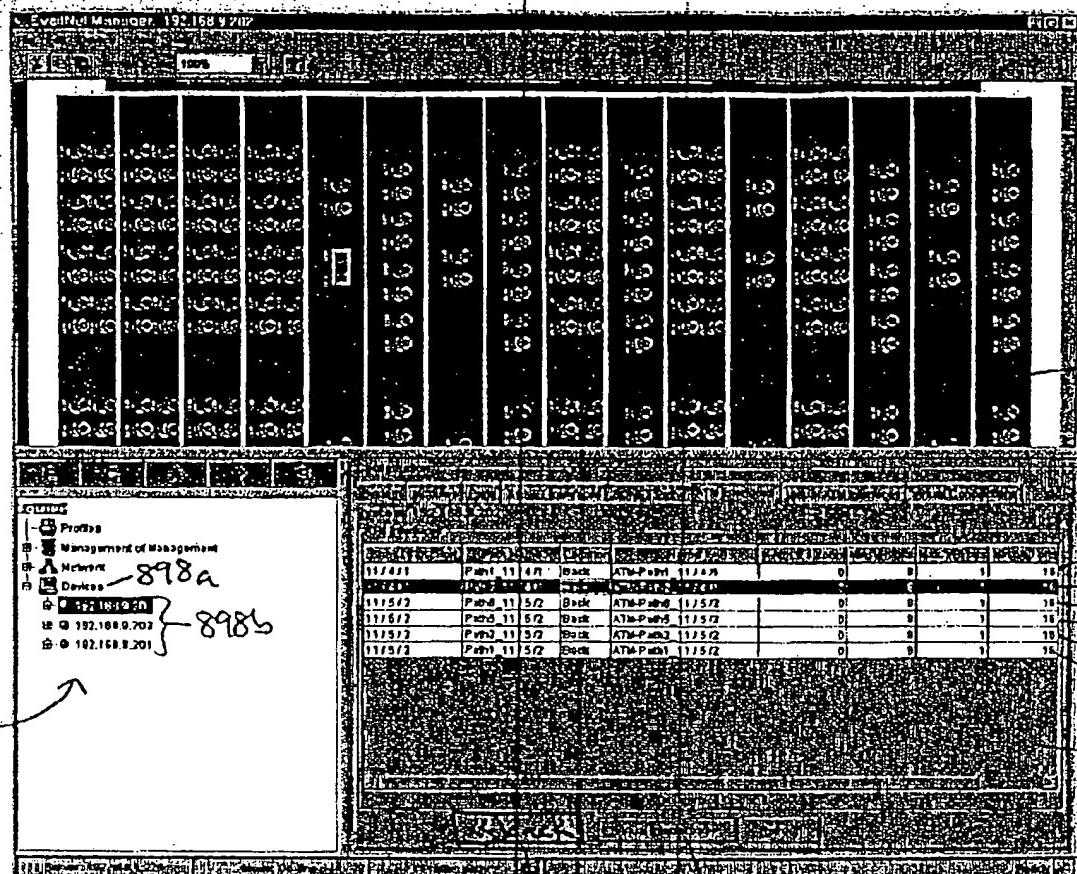


Fig. 5g

895



-896a

9469
9465
9464
946d
946e

-897

9461

946 a

Fig. 57

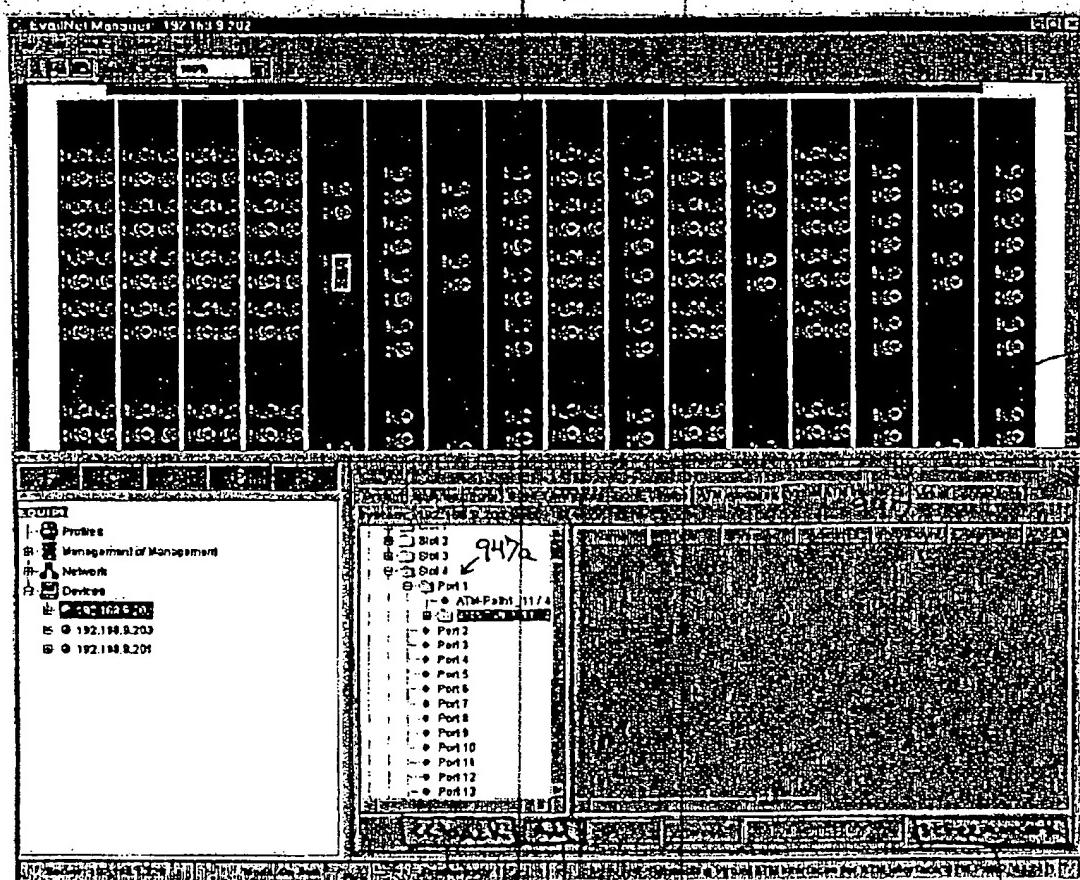
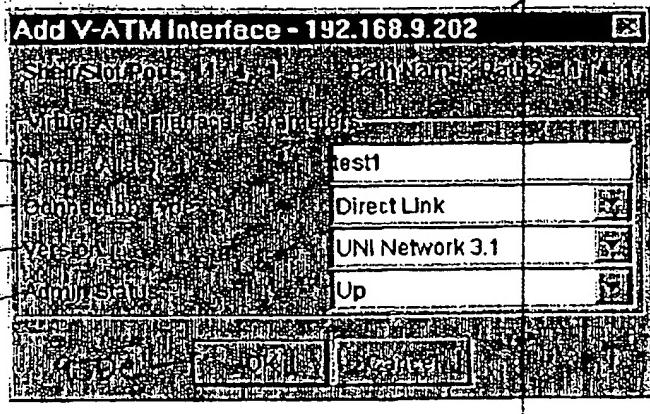


Fig. 5s

Fig. 5+

- 950

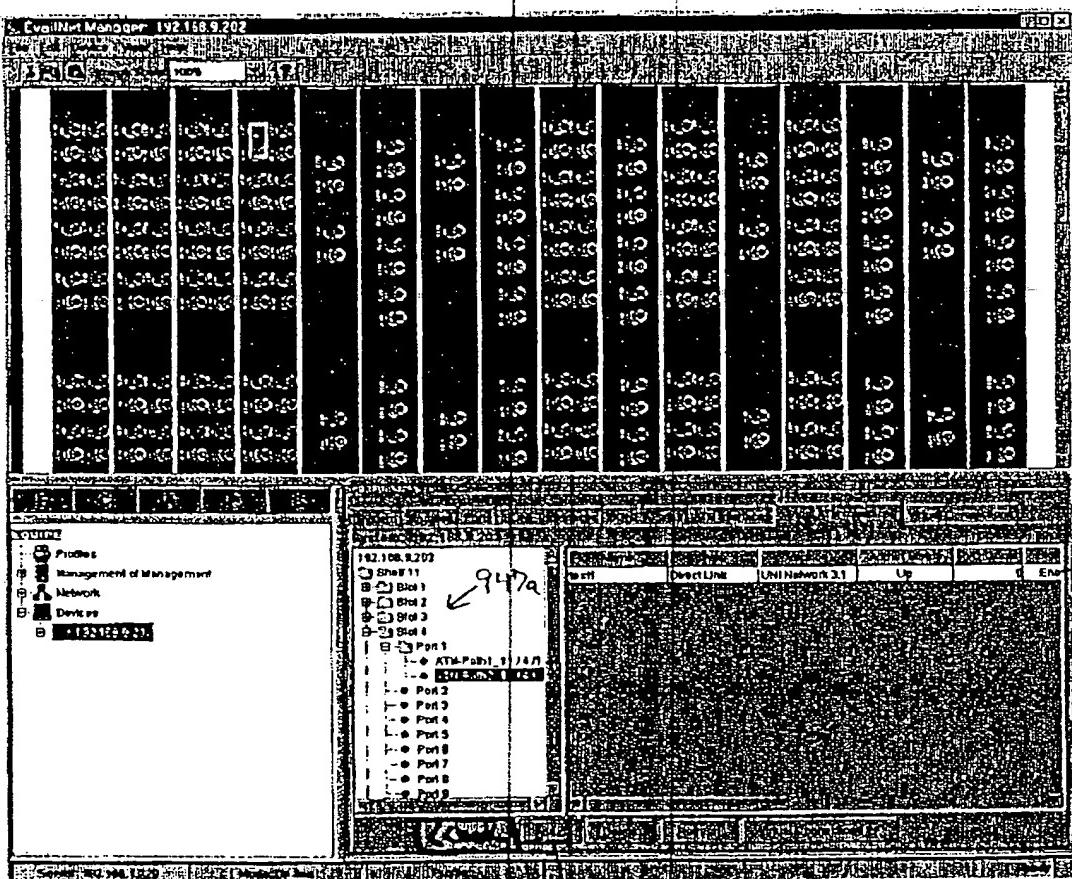


950d

95Da

9506

950c



9476

Fig. 5 u

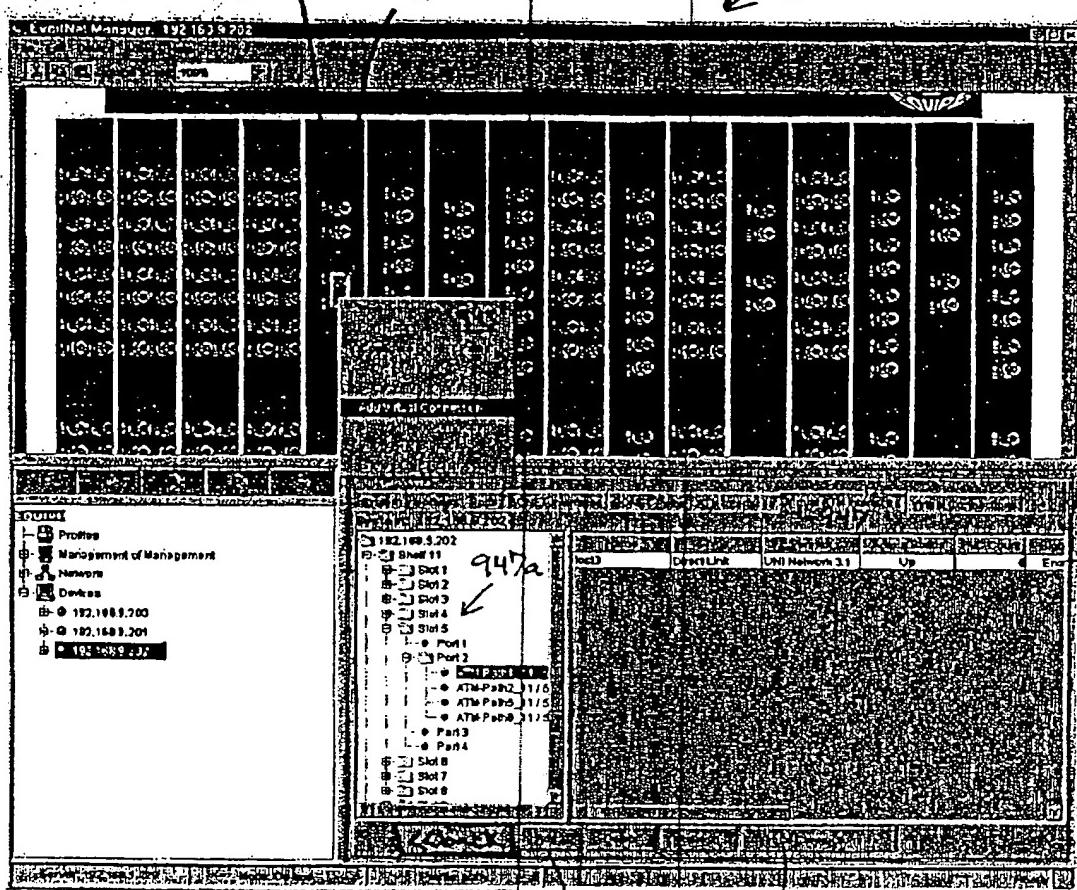


Fig. 5v

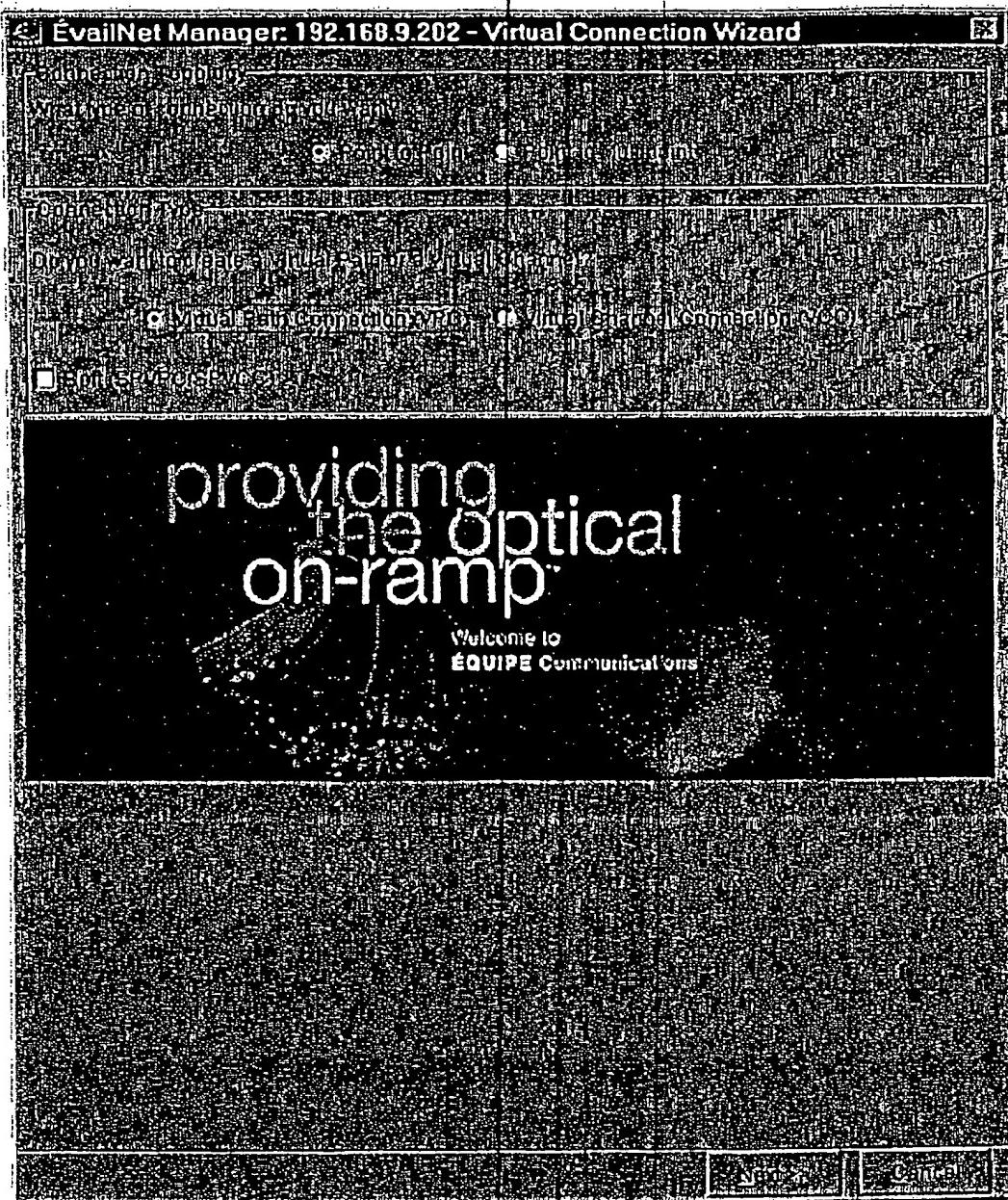


Fig. 5w

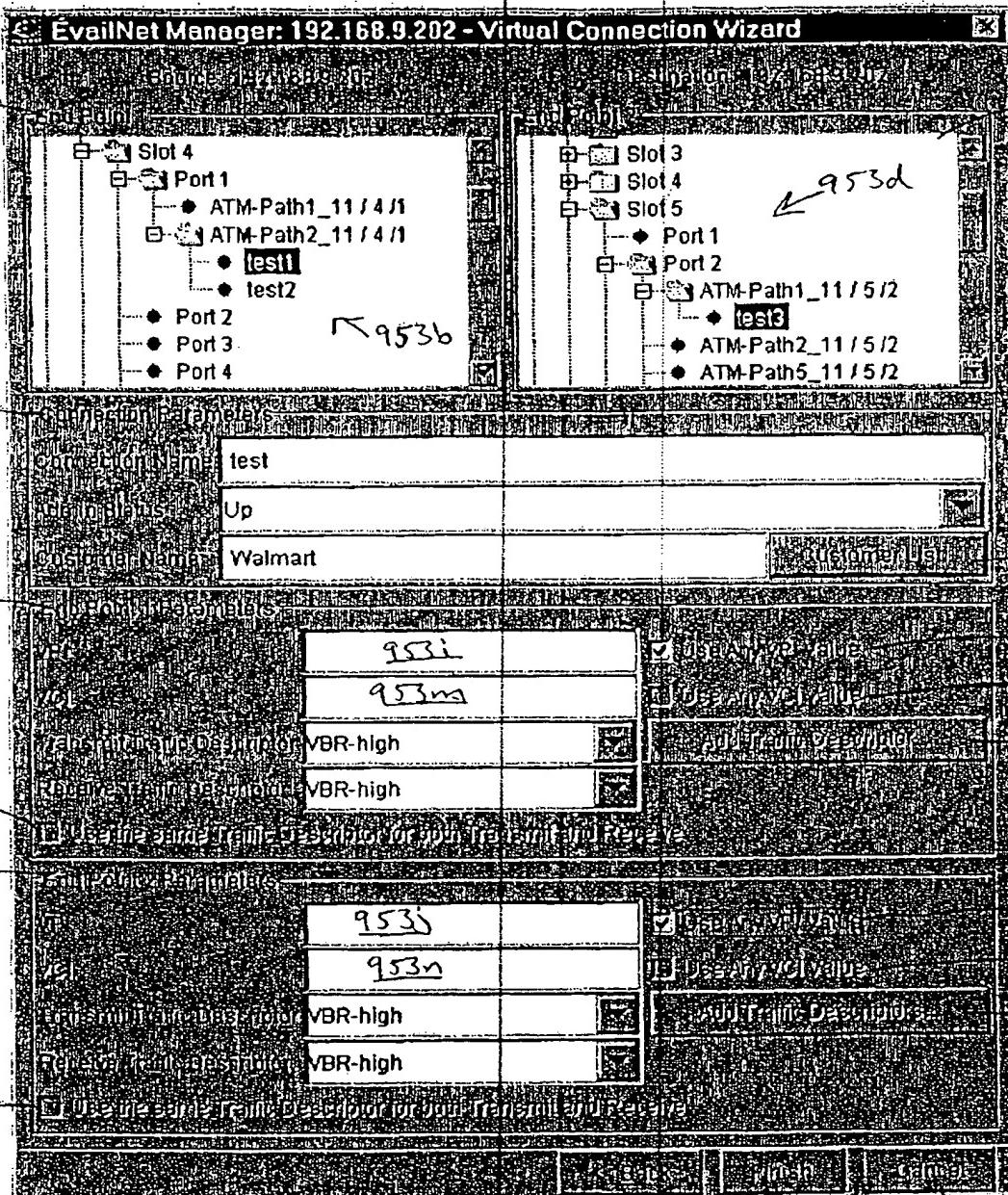


Fig. 5x

956

New Traffic Descriptor

Name:	<input type="text"/>
QoS Class:	<input type="text"/> <input checked="" type="radio"/>
Type:	<input type="text"/> <input checked="" type="radio"/>
<input type="button" value="OK"/>	<input type="button" value="Cancel"/>

Fig. 5Y

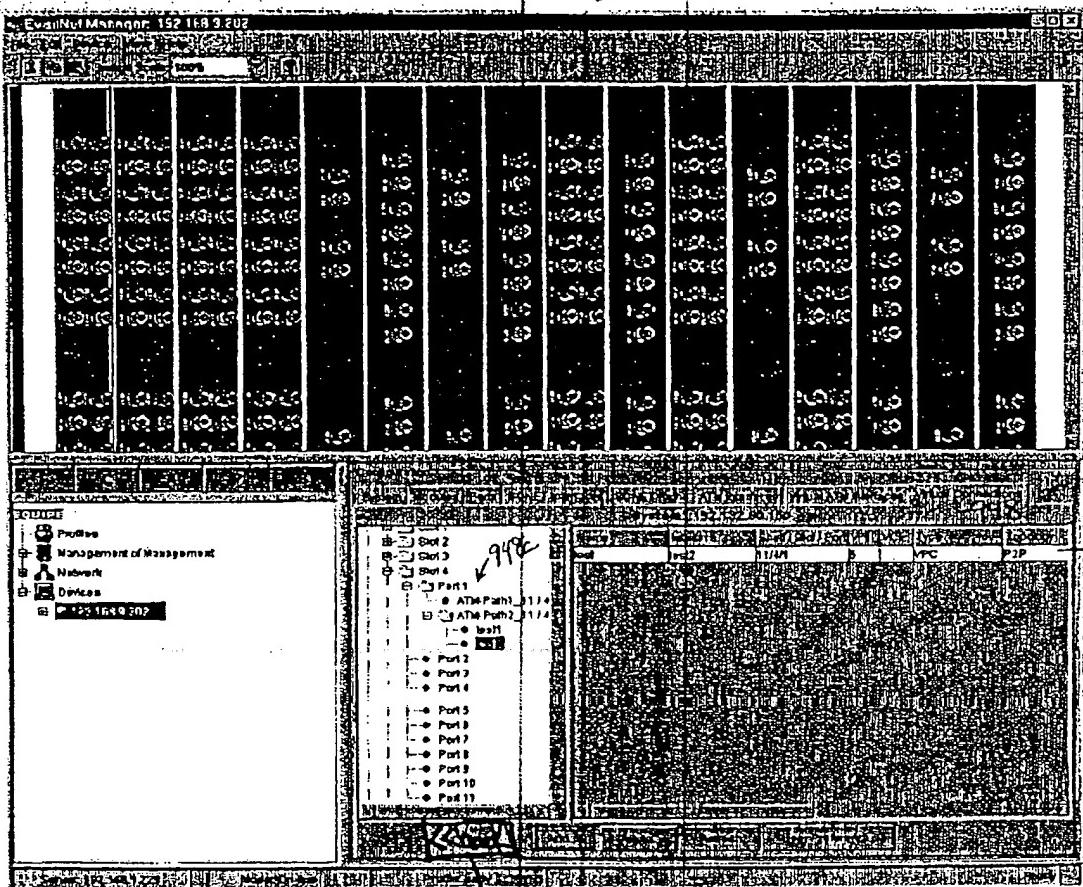


Fig. 57

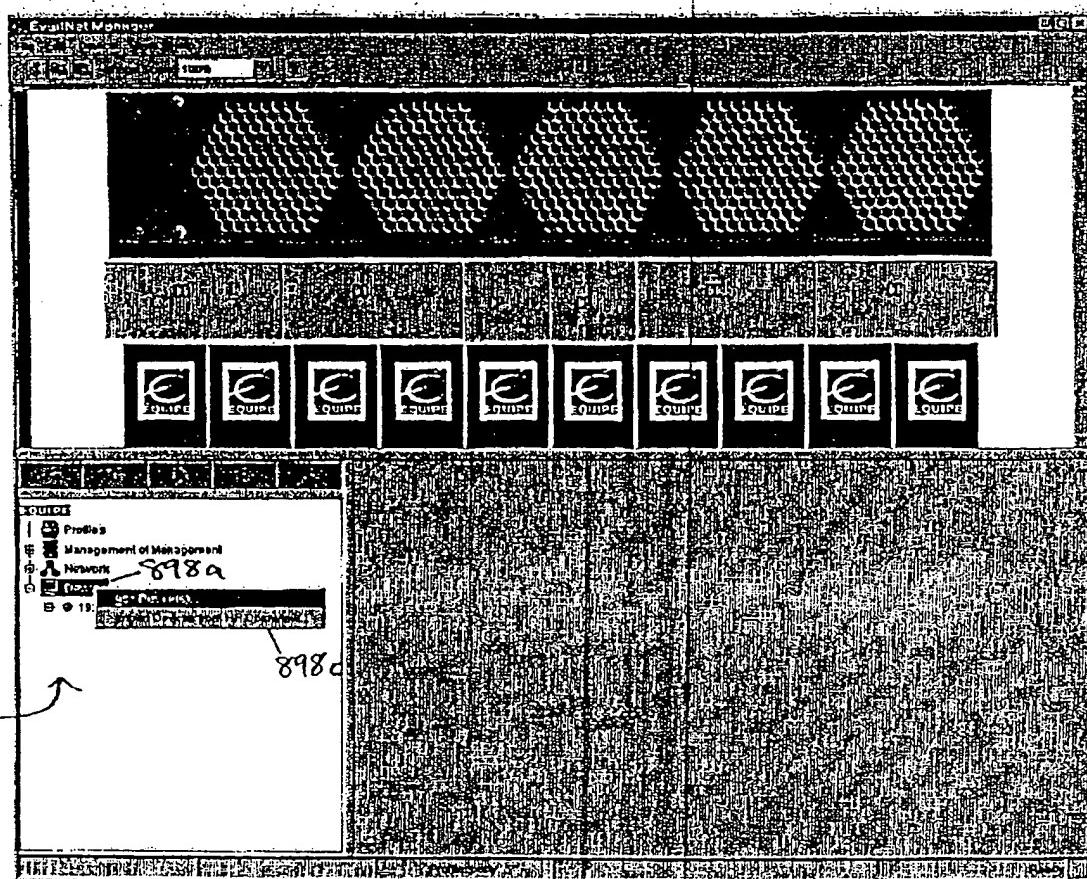
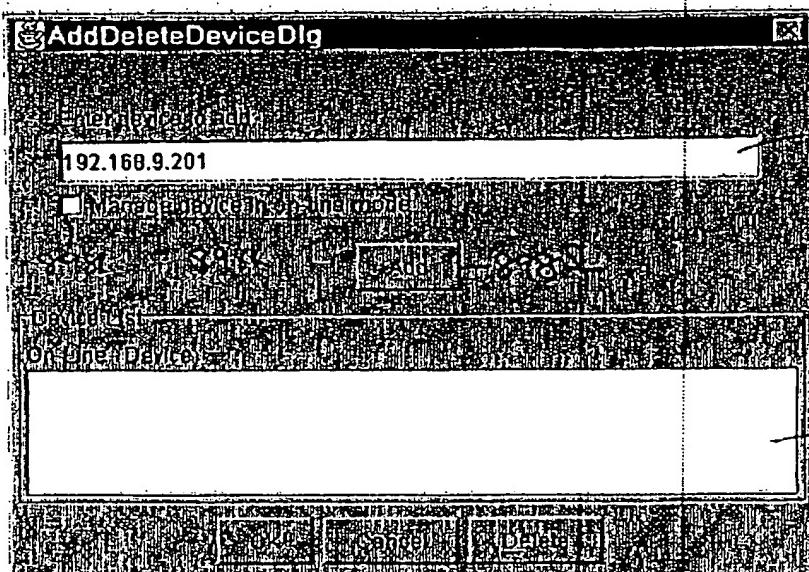


Fig. 6a

Fig. 6

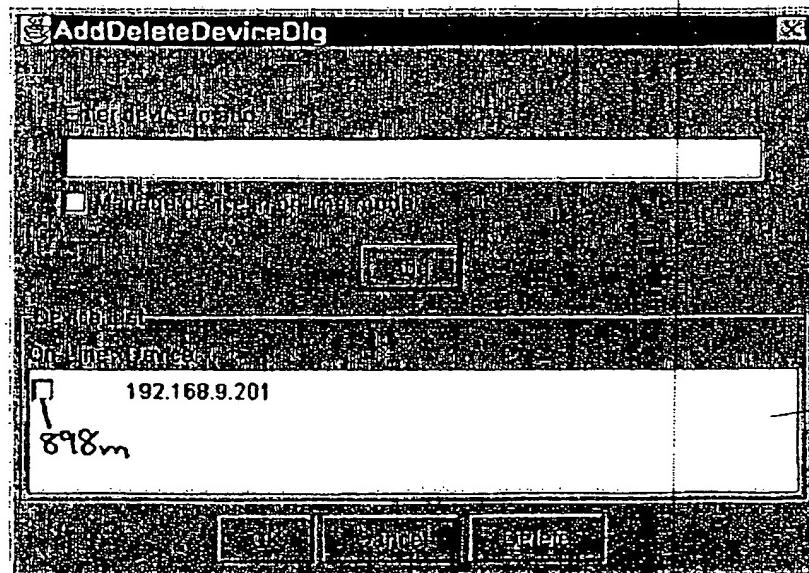


898e

898d

898g

Fig. 6c



898d

898g

898m

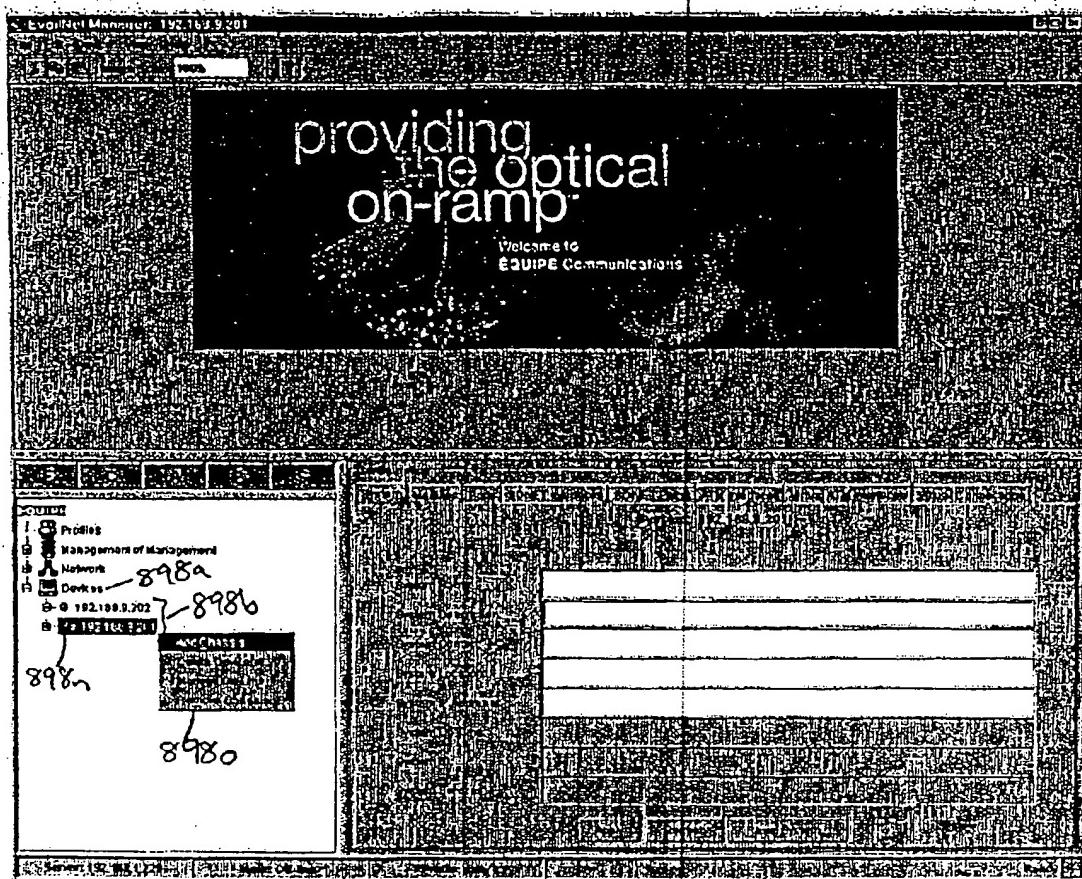


Fig. 6d

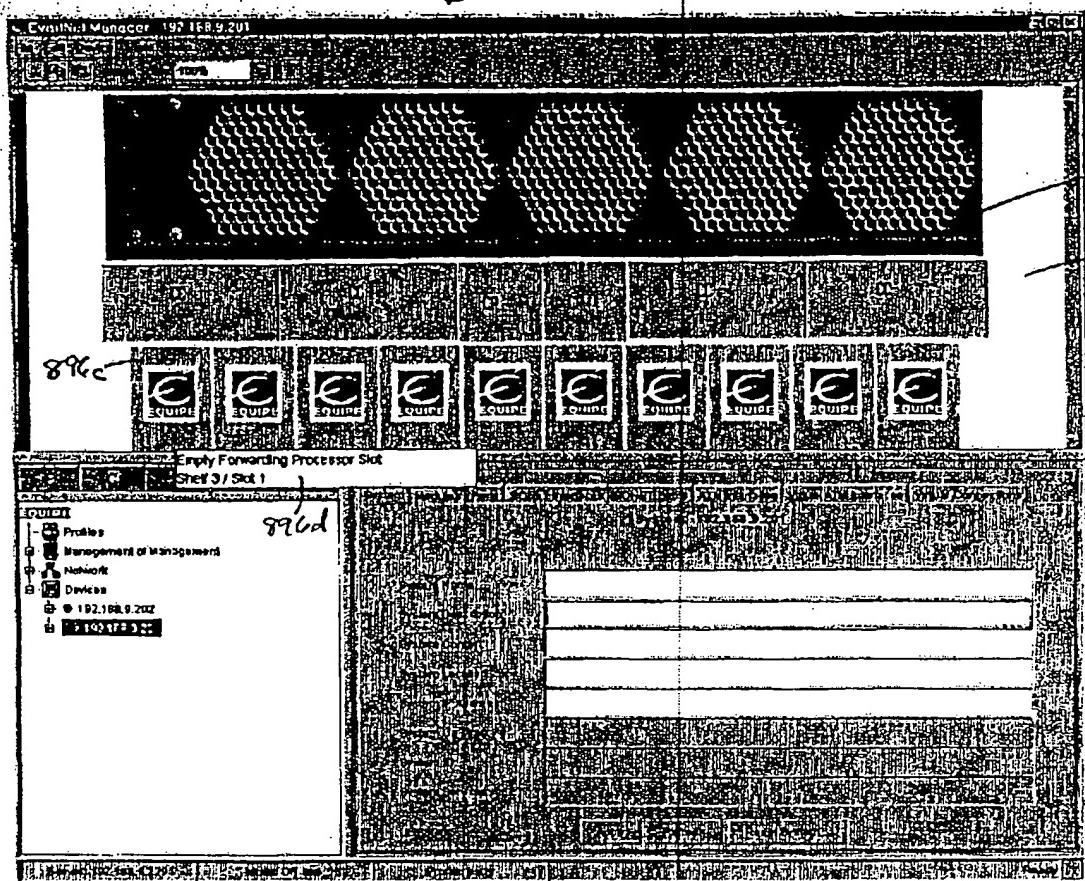


Fig. 6e

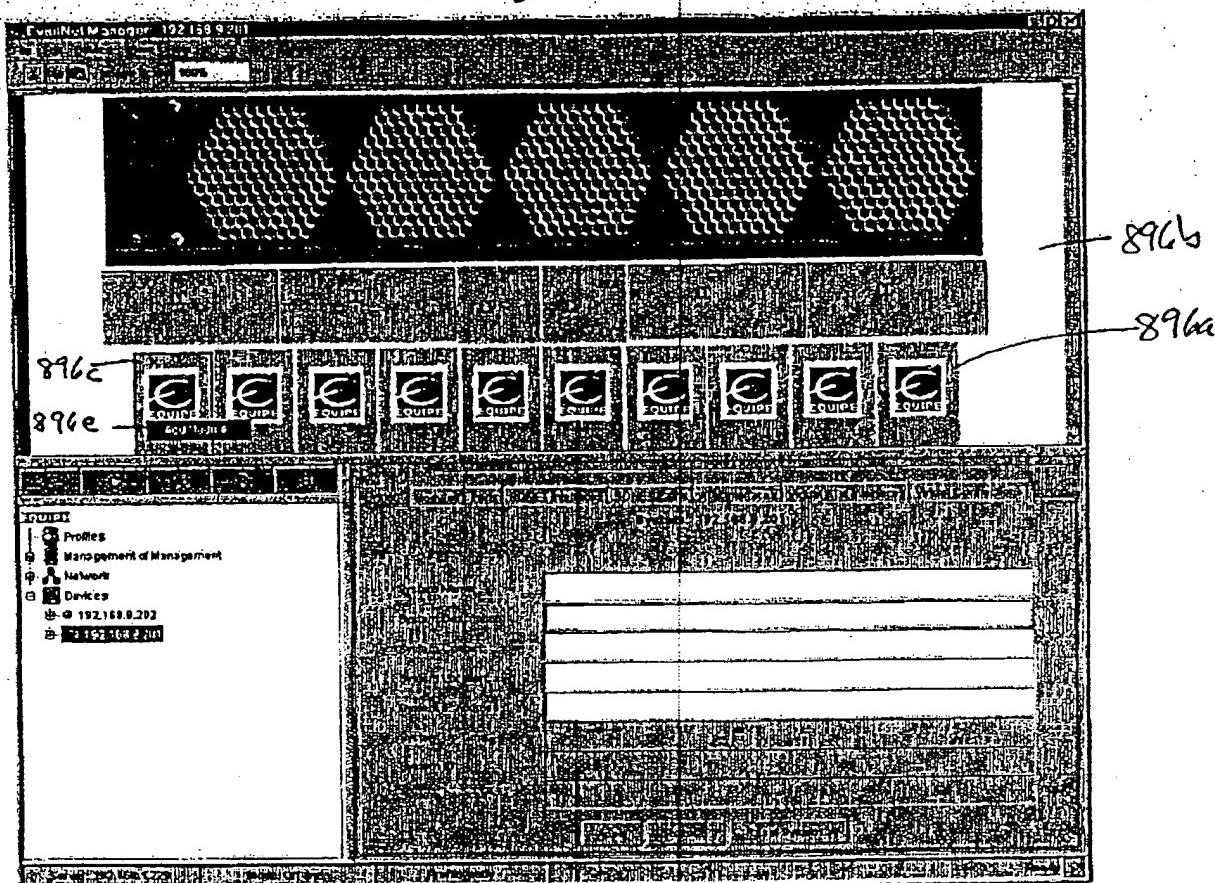


Fig. 6f

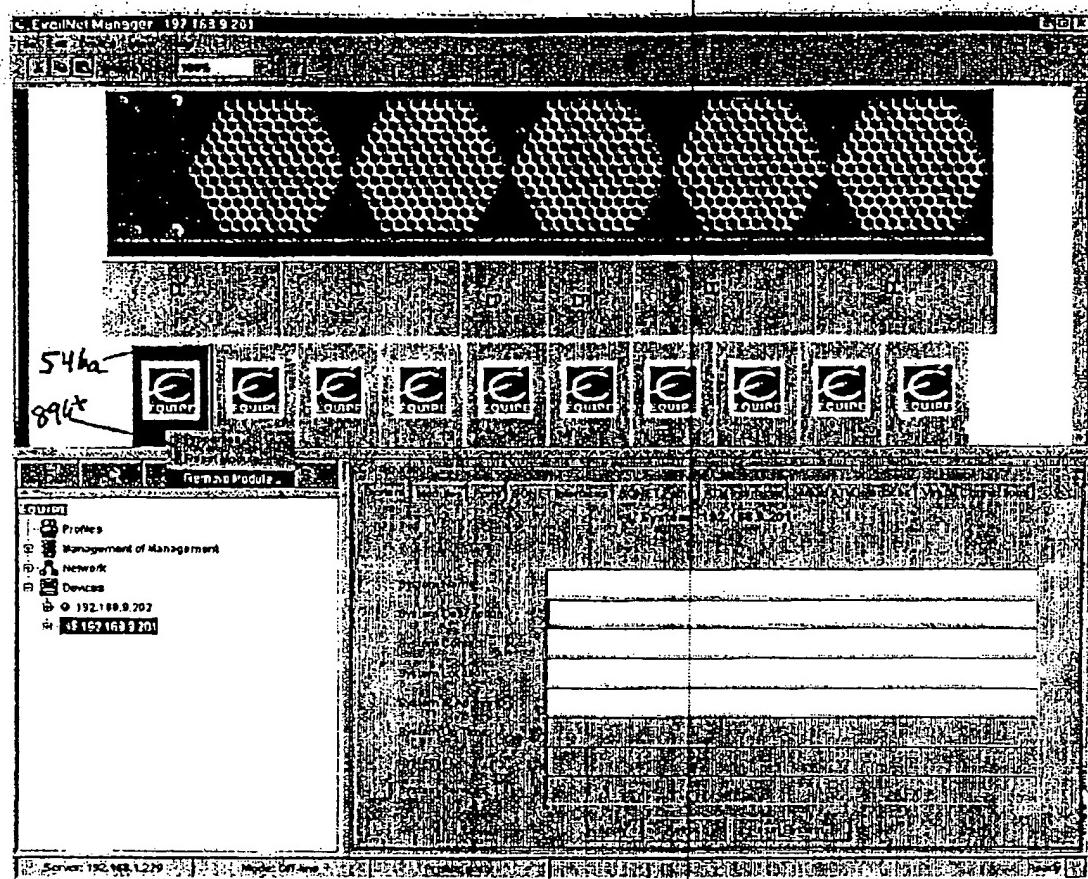


Fig. 6g

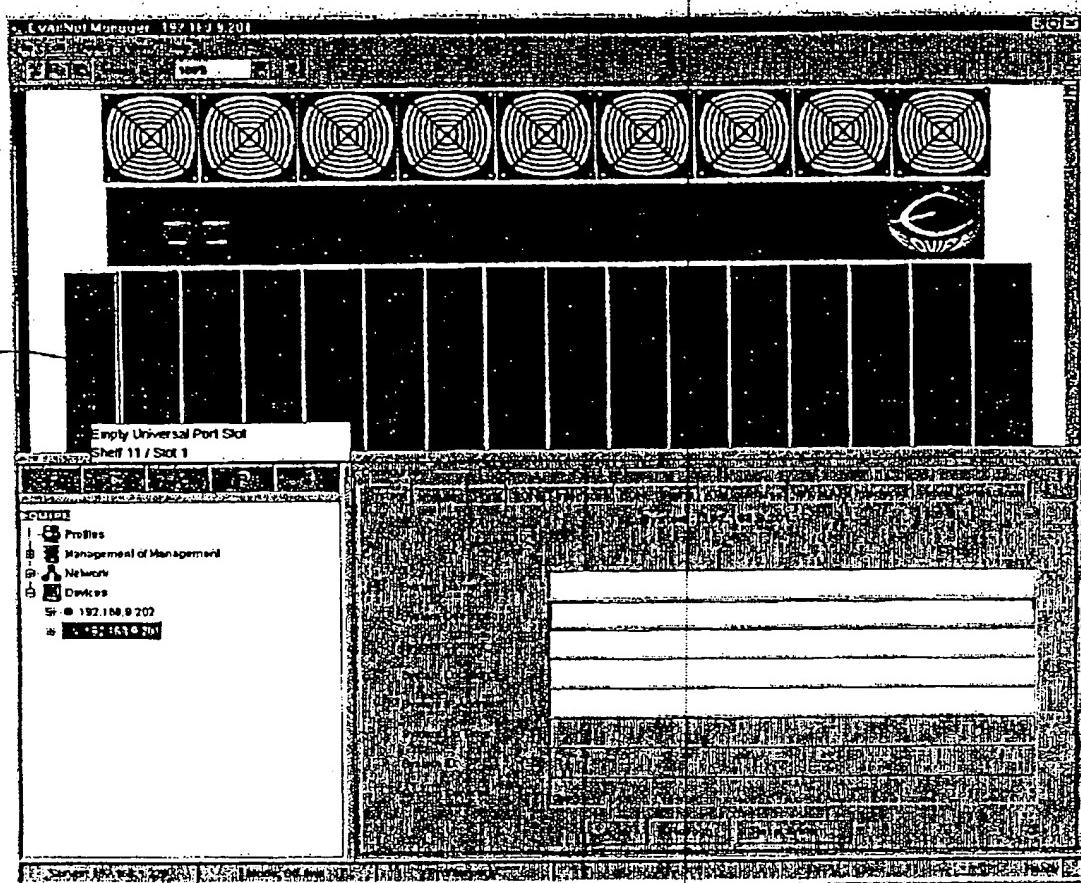


Fig.6h

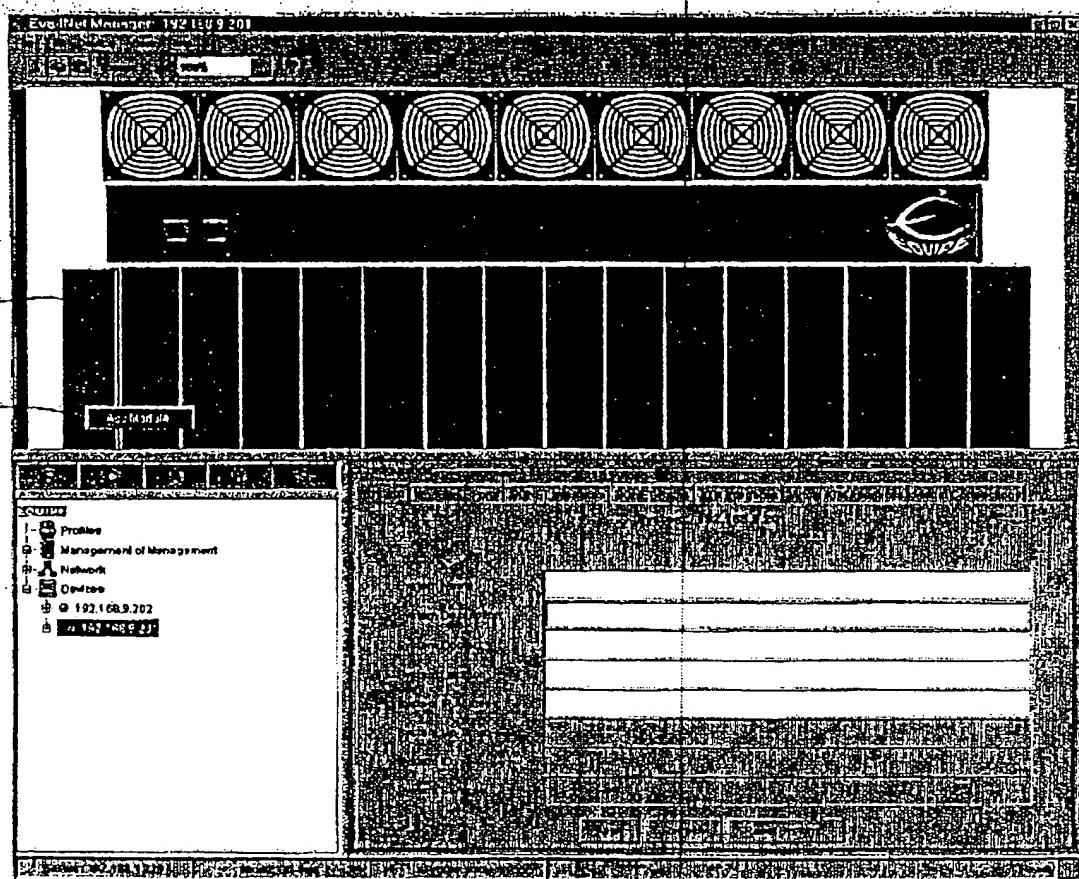
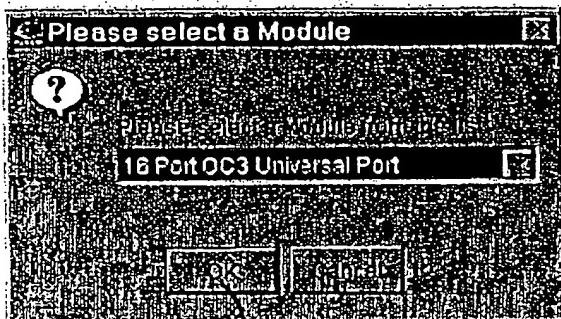


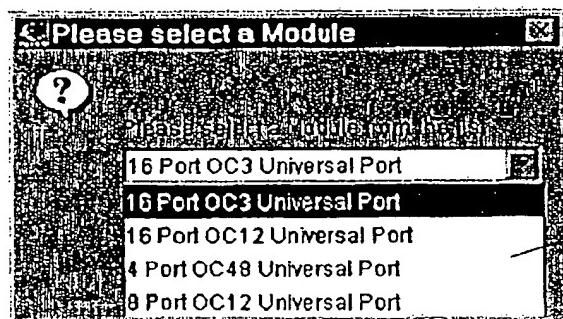
Fig.6i

Fig. 6j



→ 896h

896j



→ 896h

→ 896i

Fig. 6K

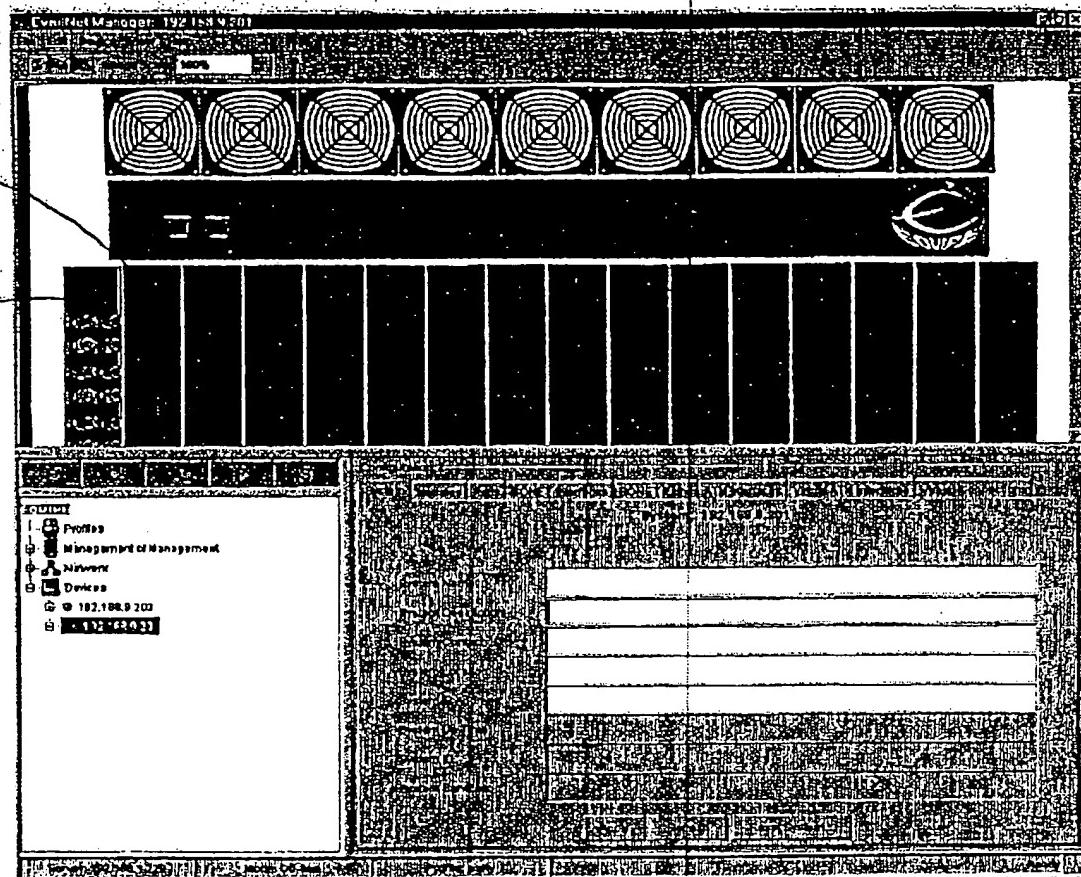


Fig.6L

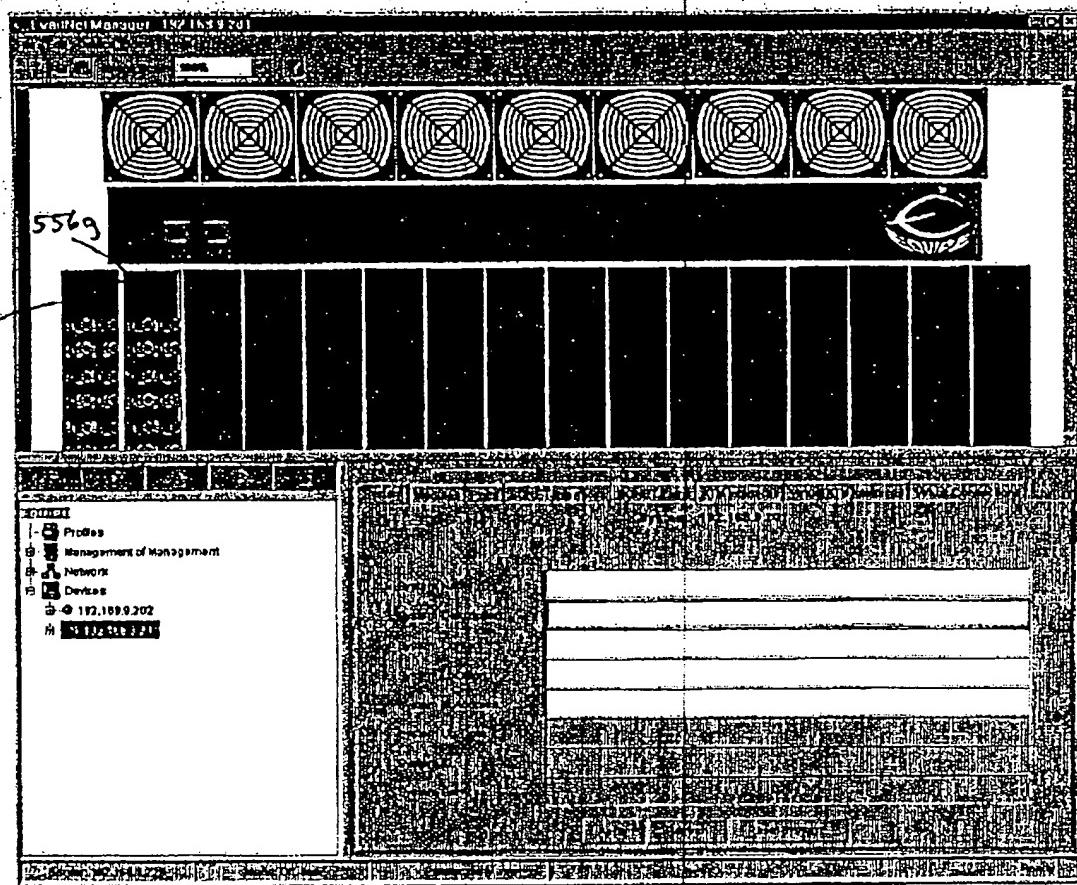


Fig.6m

-895

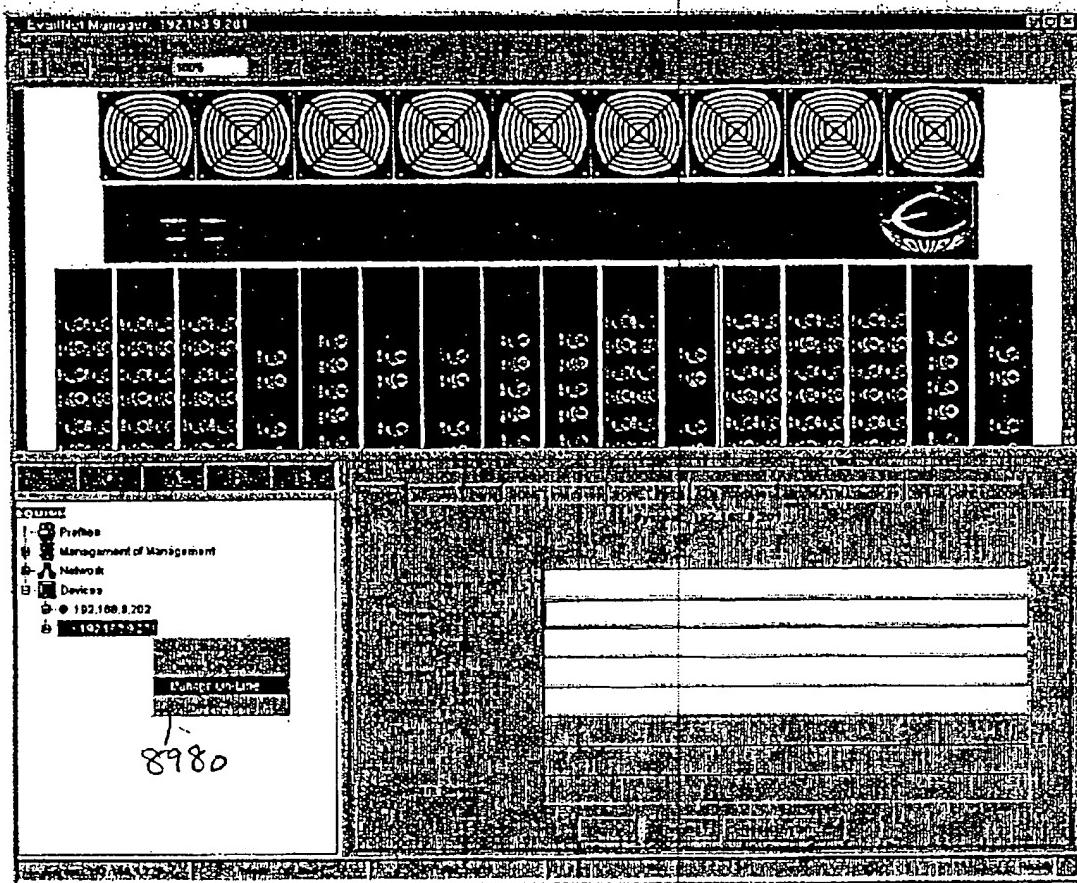


Fig. 6n

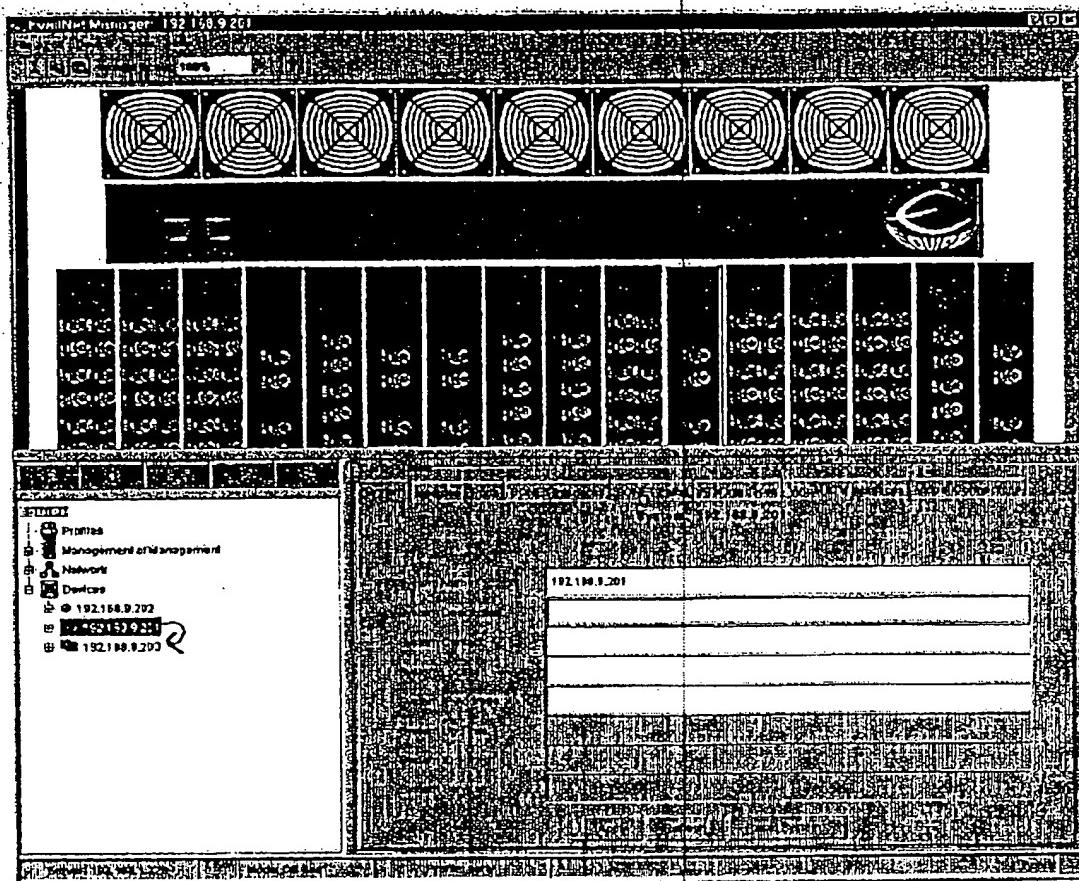


Fig. 60

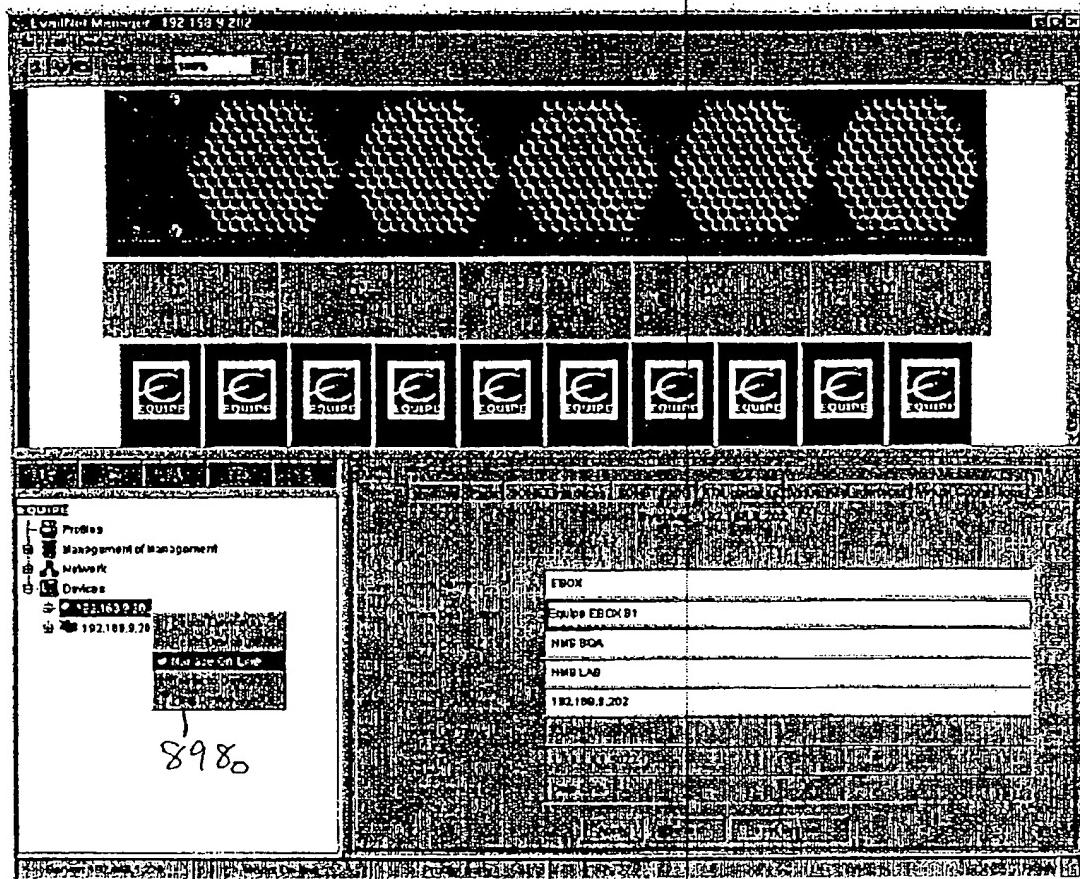


Fig. 6P

895

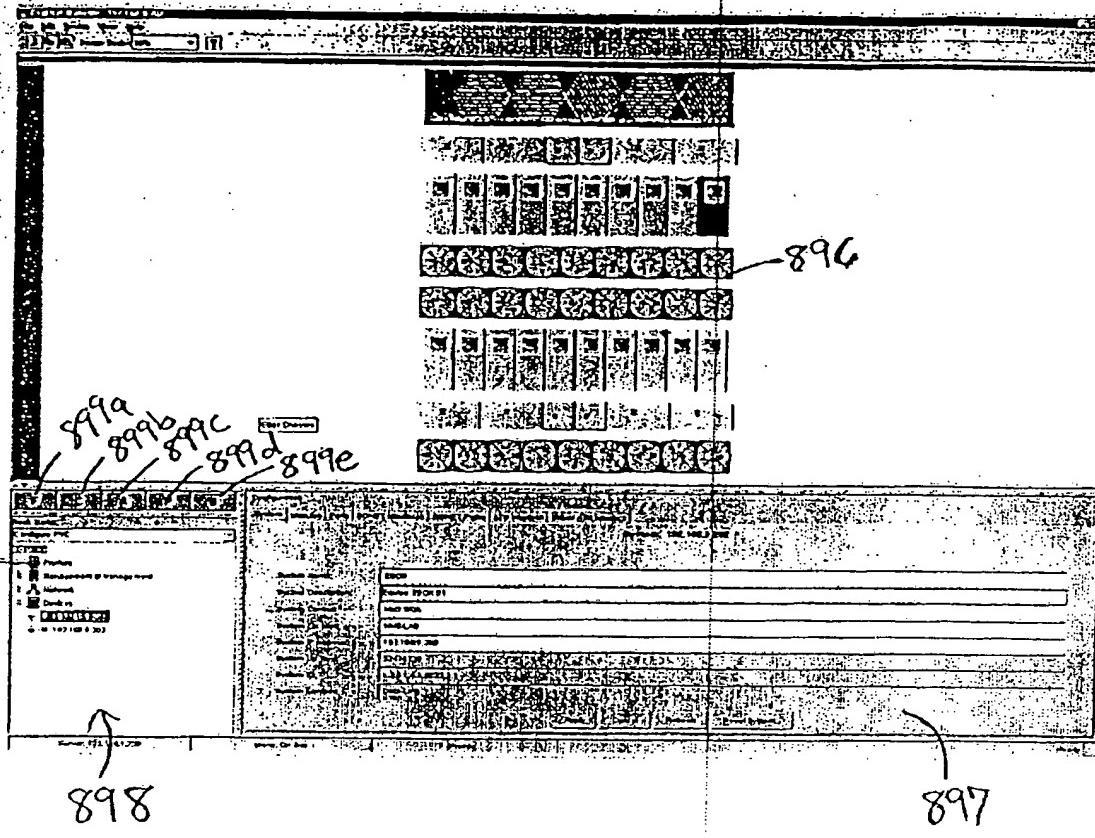


Fig. 7a

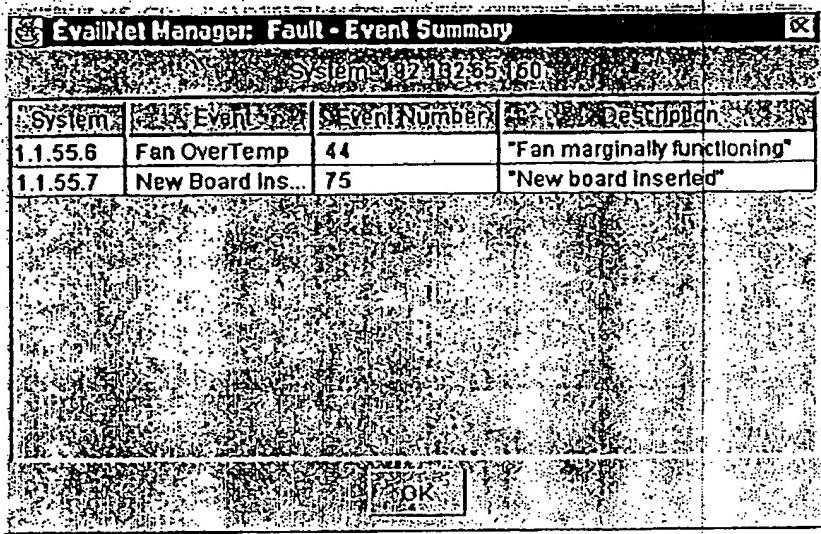


Fig. 7b

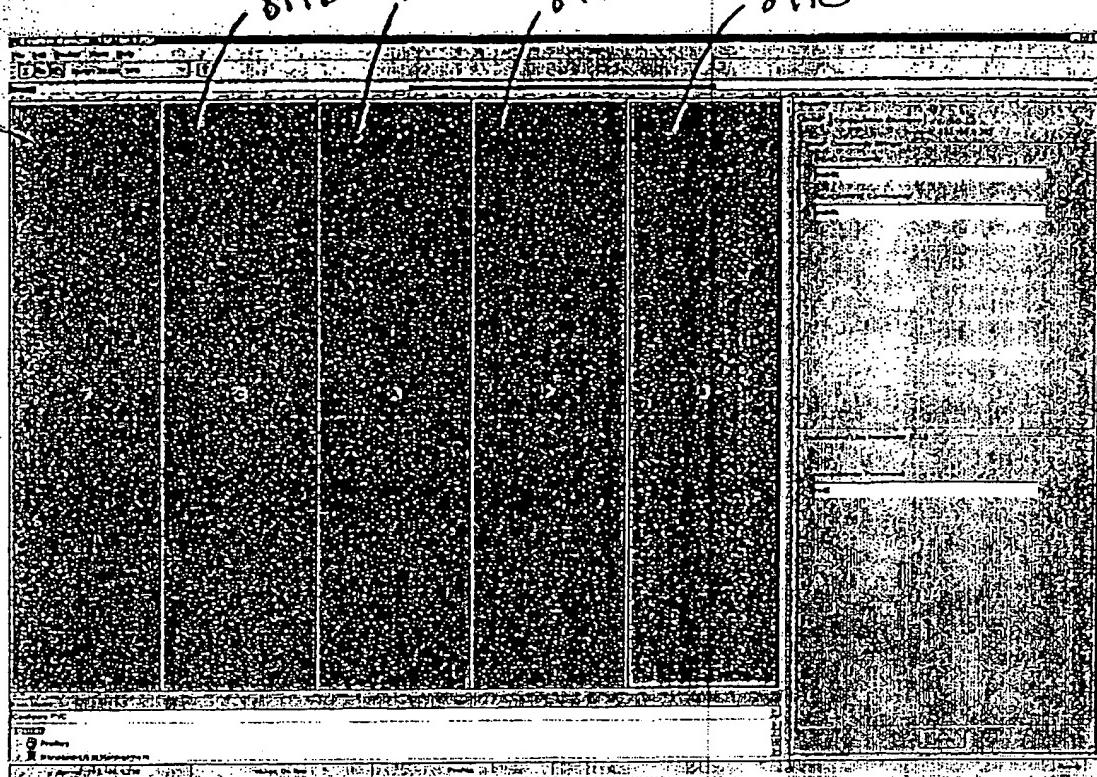


Fig.7c

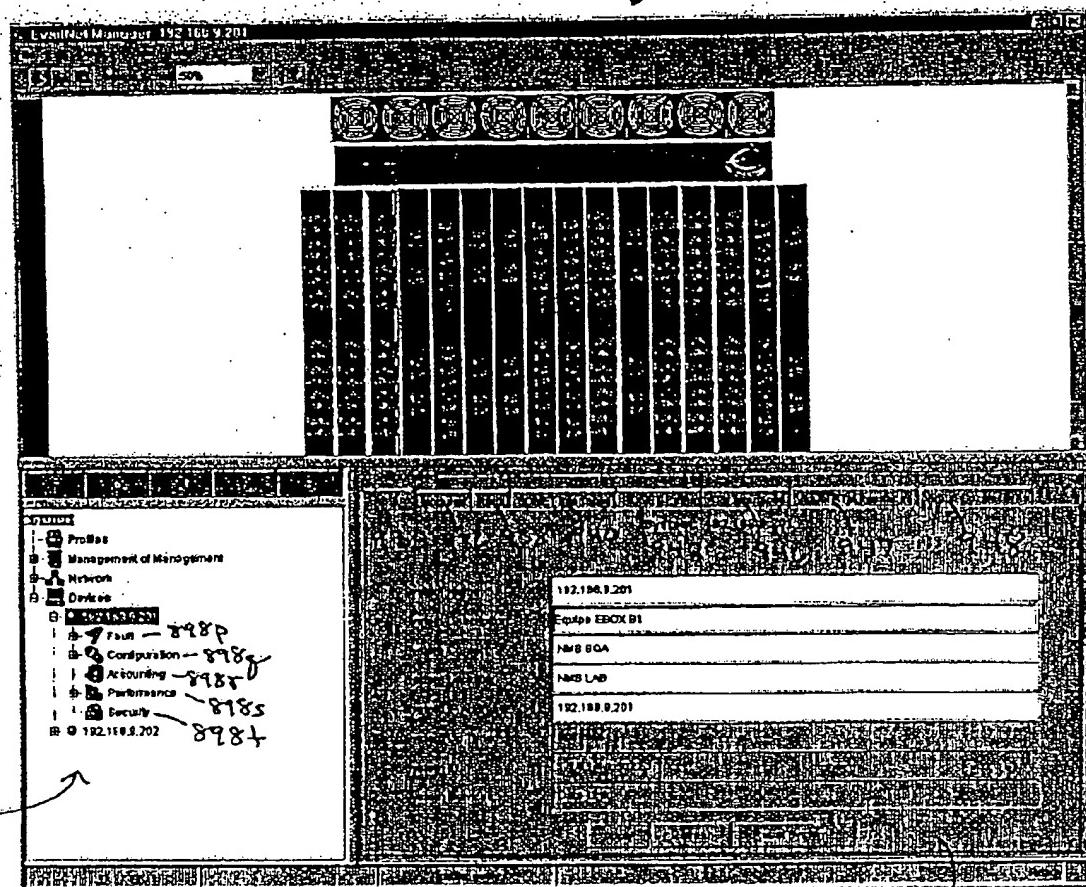
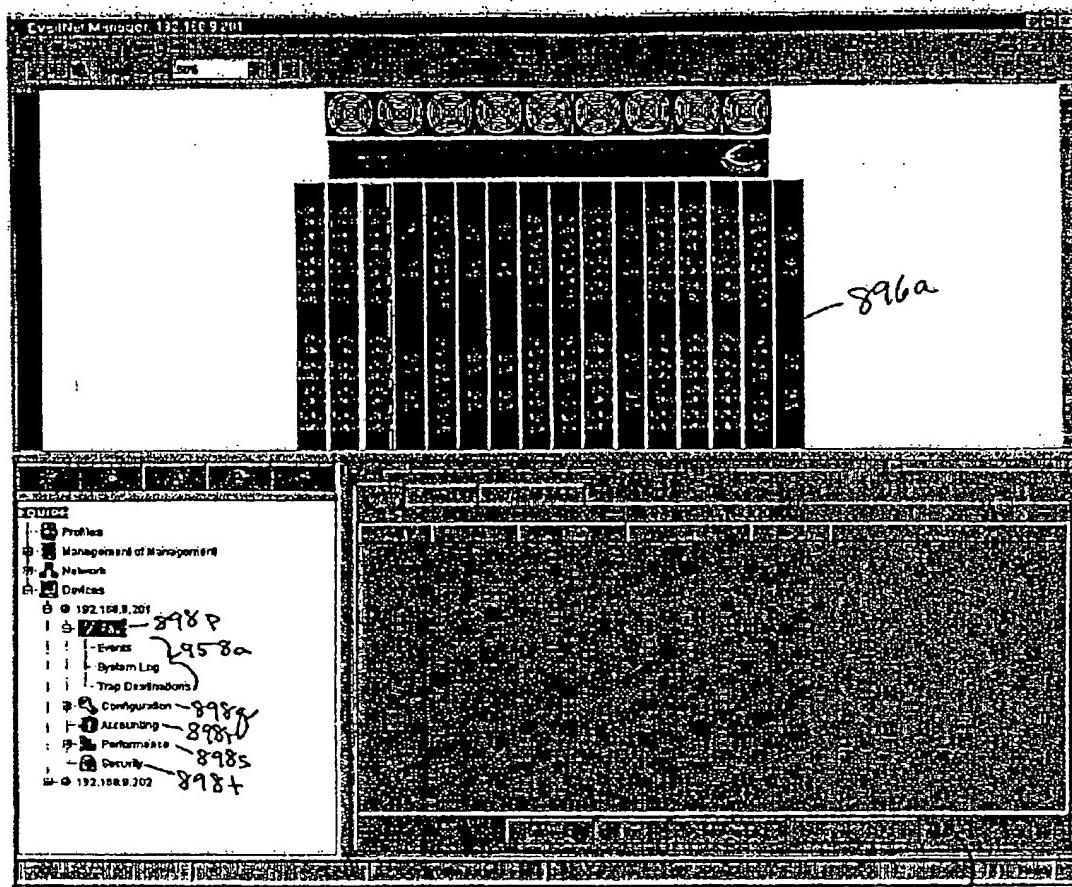
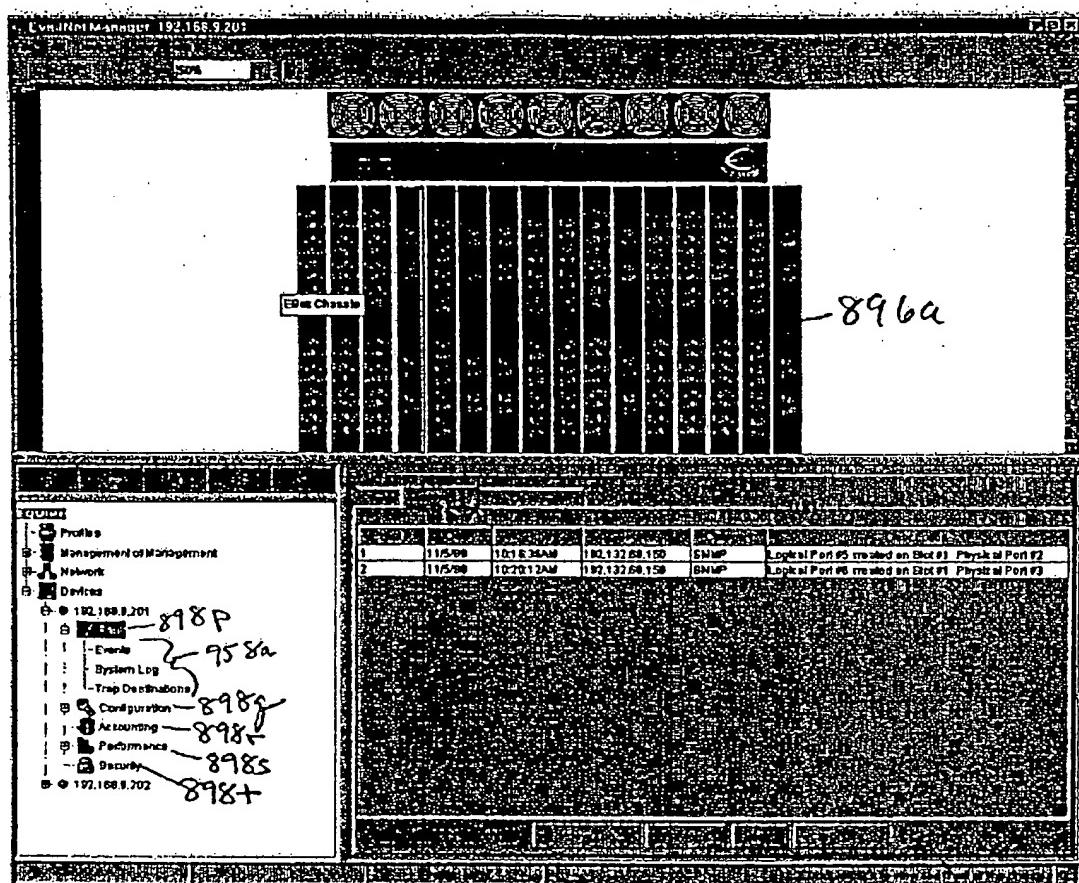


Fig.7d



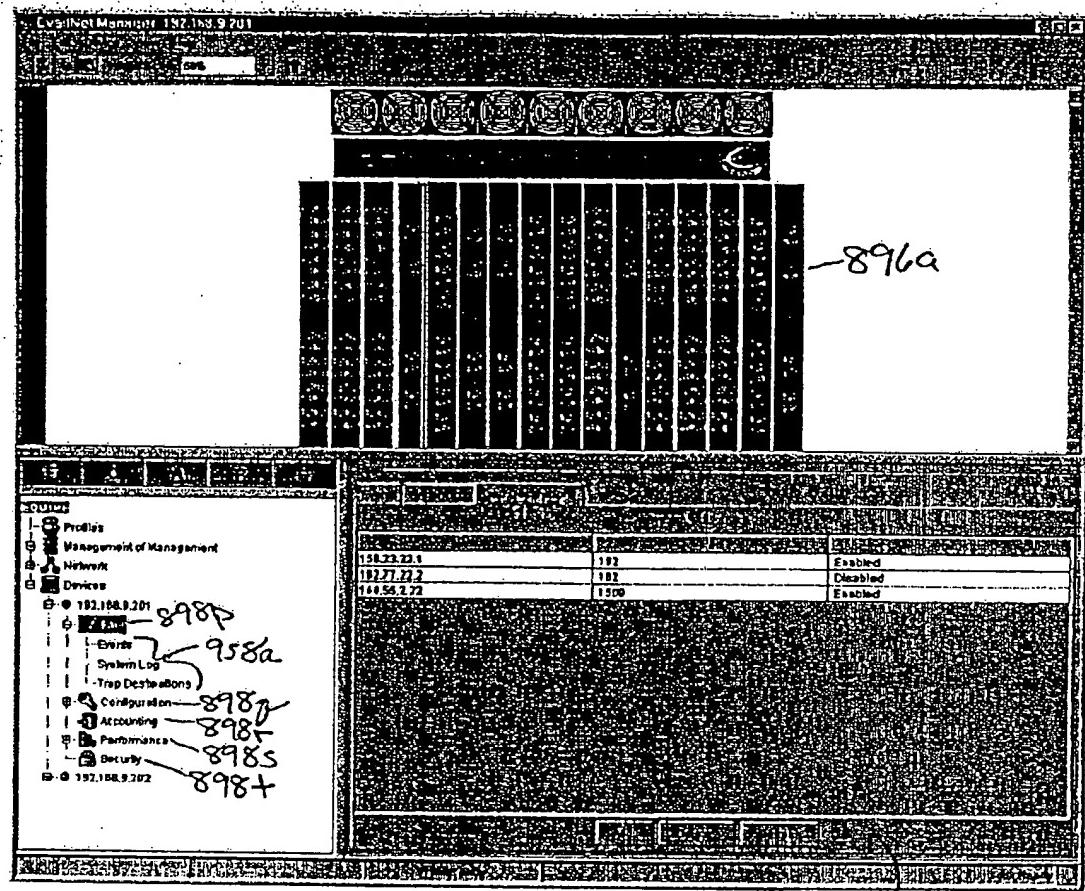
897

Fig. 7e



897

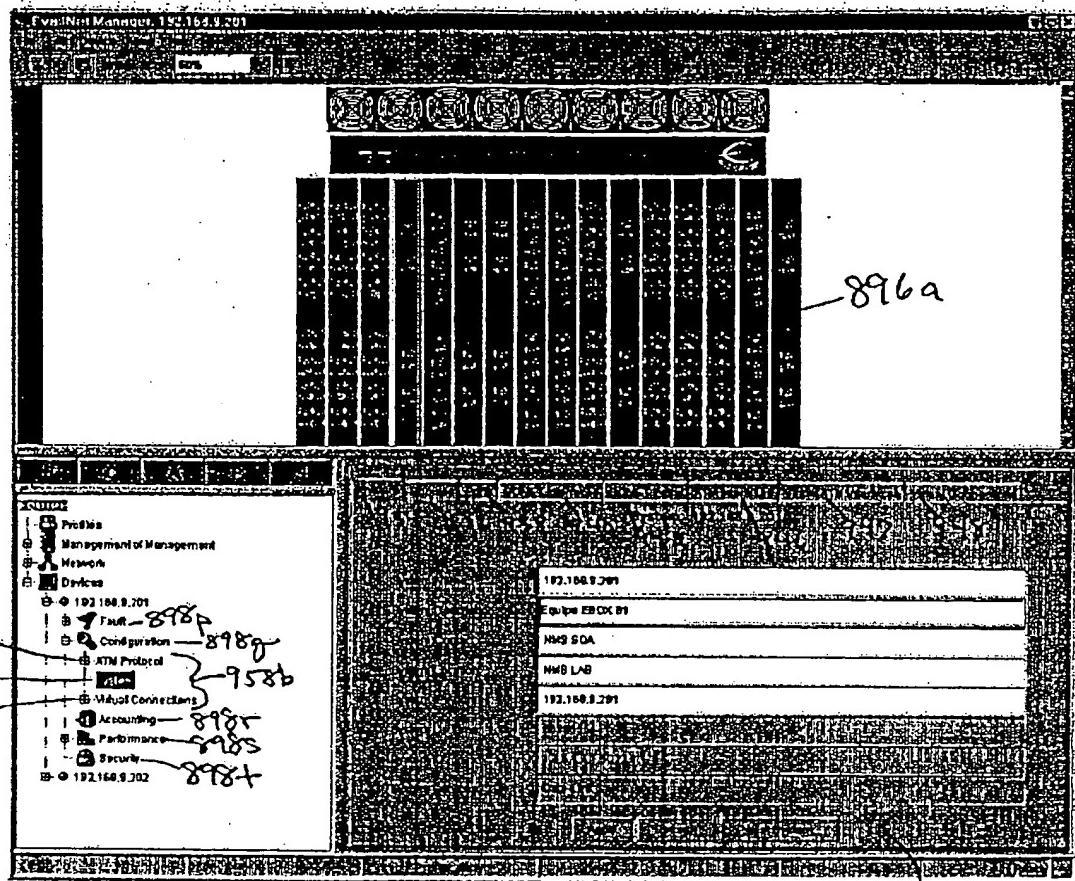
Fig. 7f



897

Fig. 7g

895



897

Fig. 7h

895

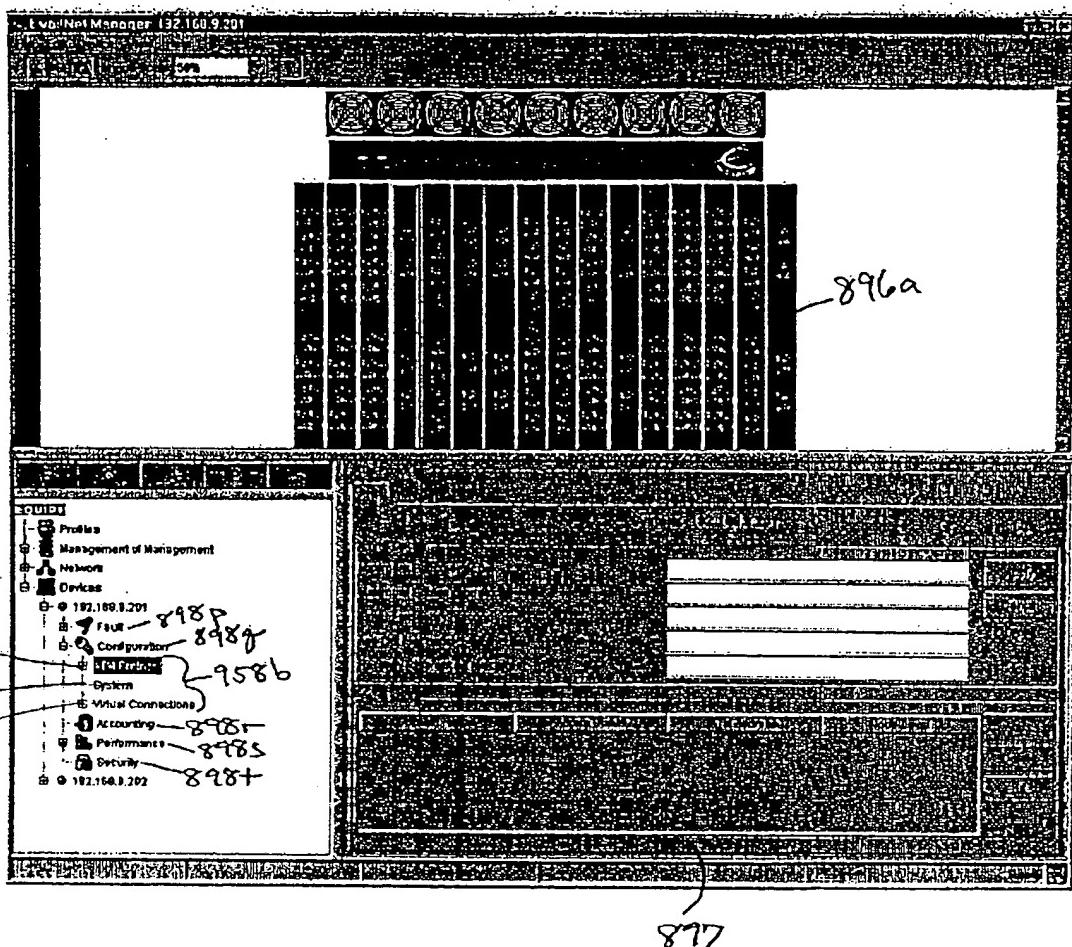


Fig. 7i

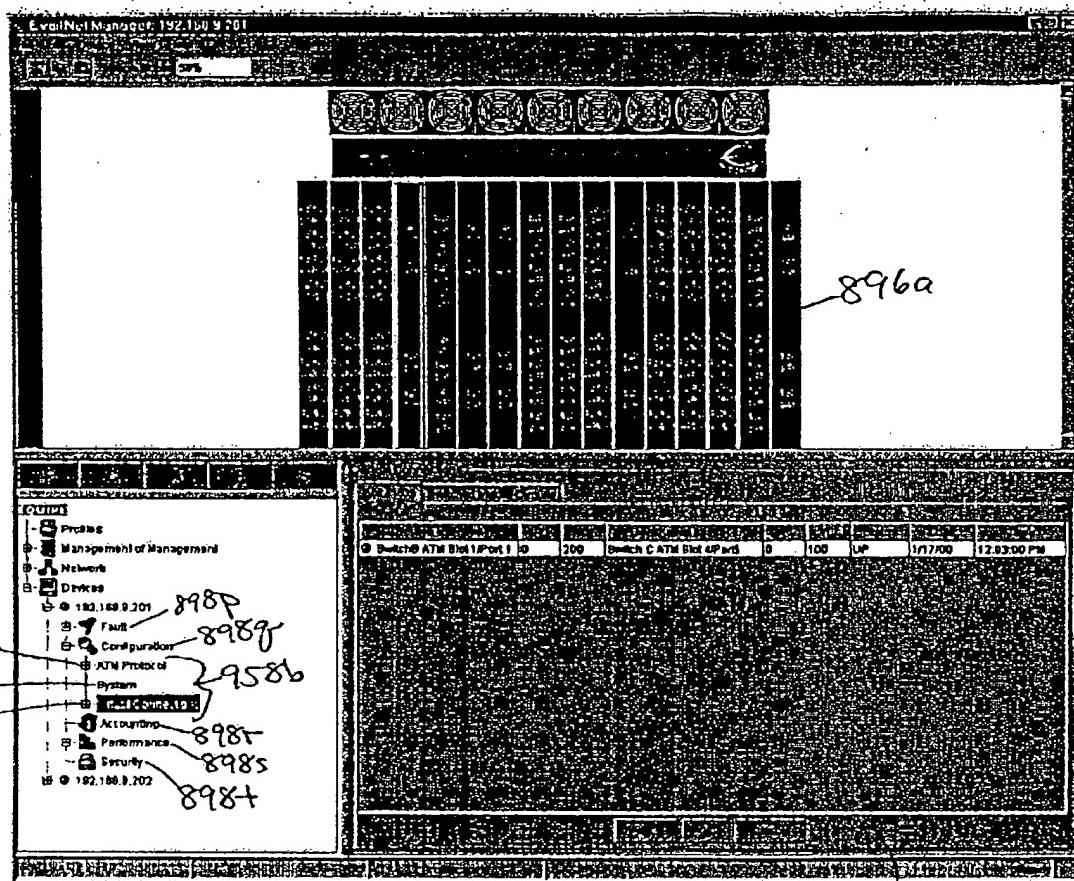


Fig. 7j

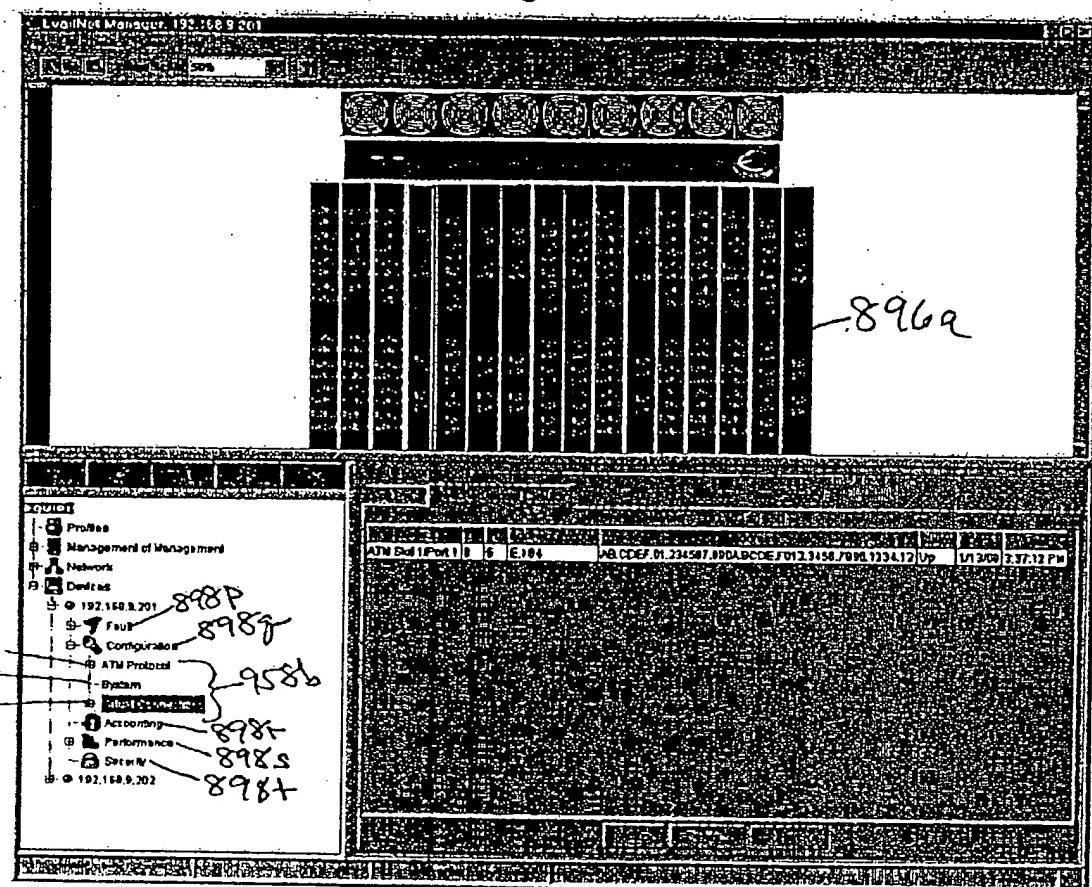


Fig. 7K

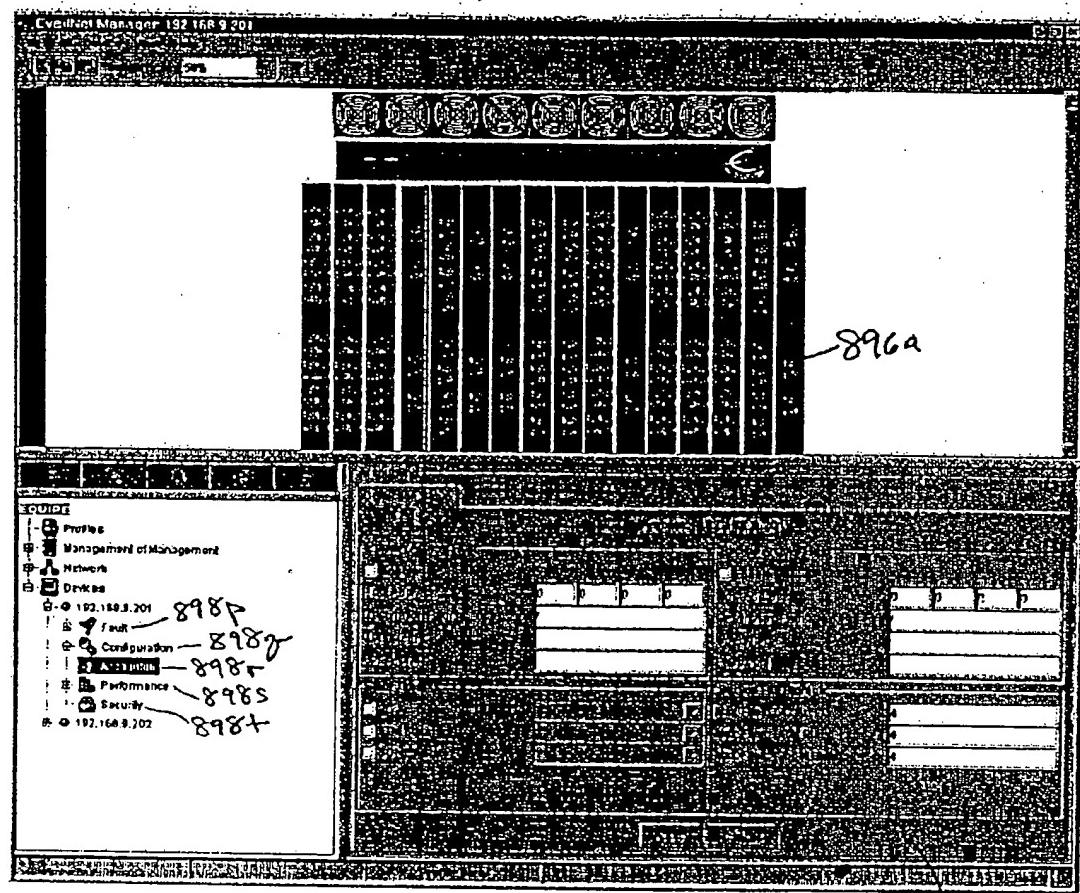


Fig. 7L

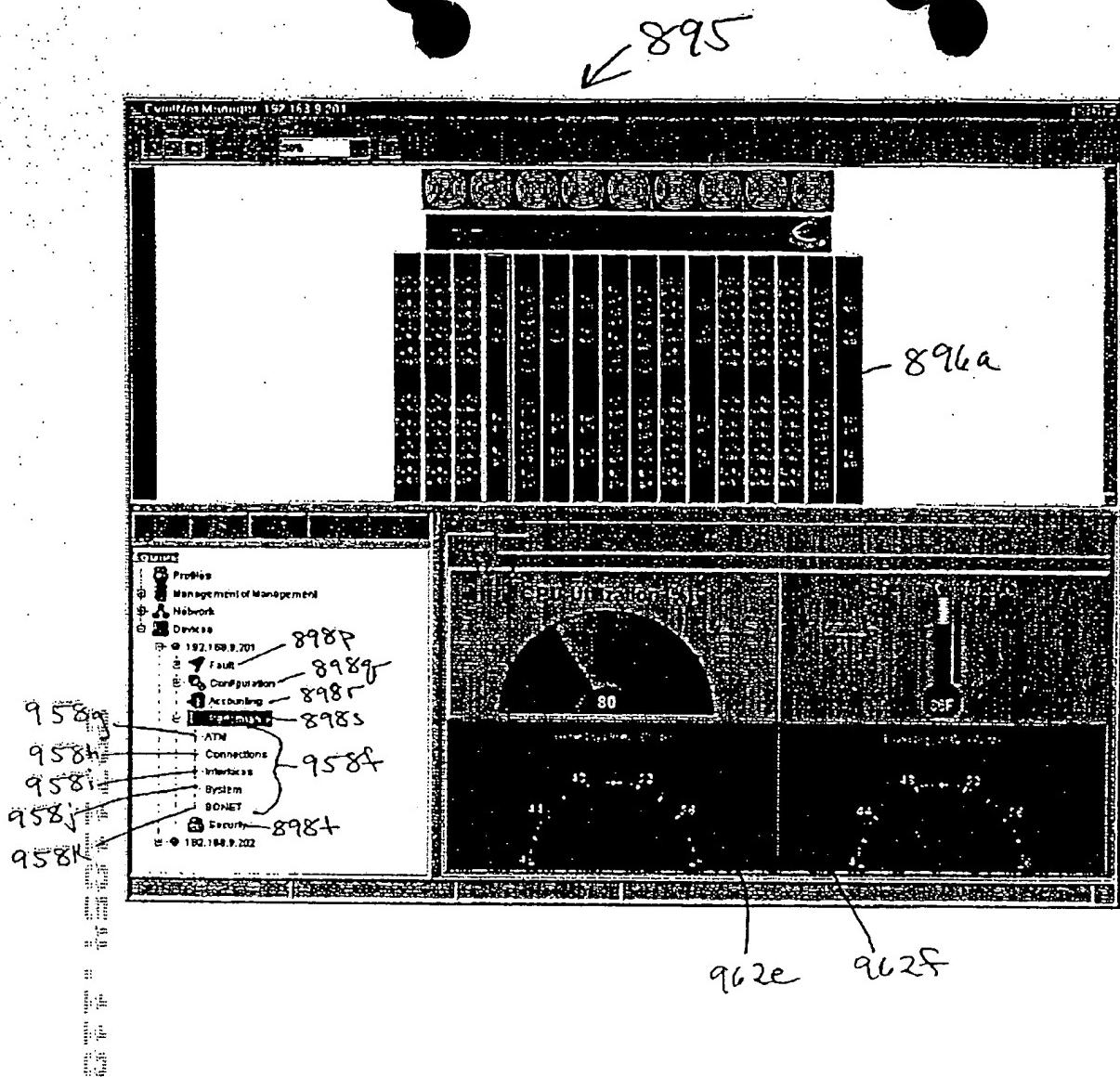


Fig. 7m

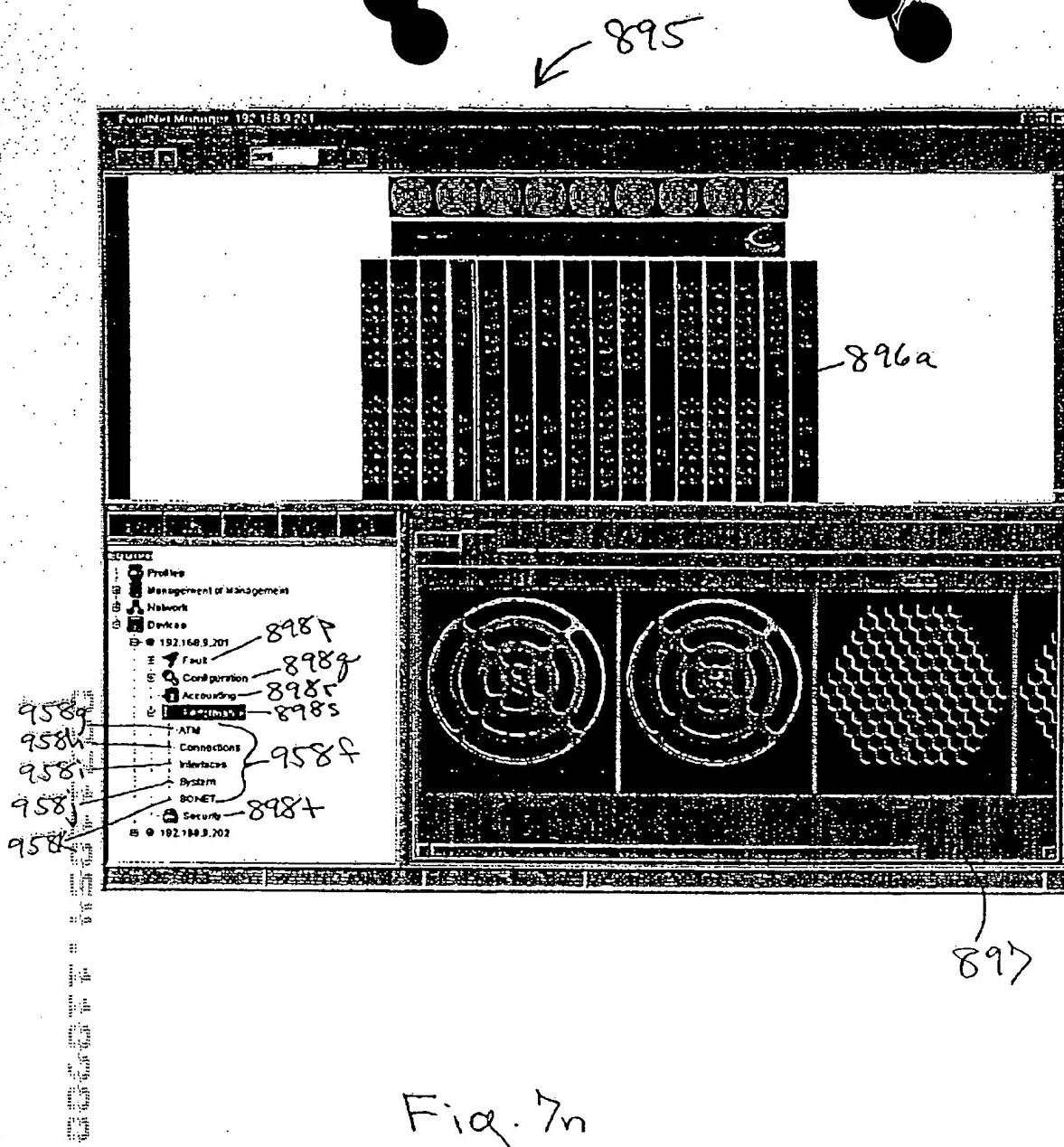


Fig. 7n

895

896a

897

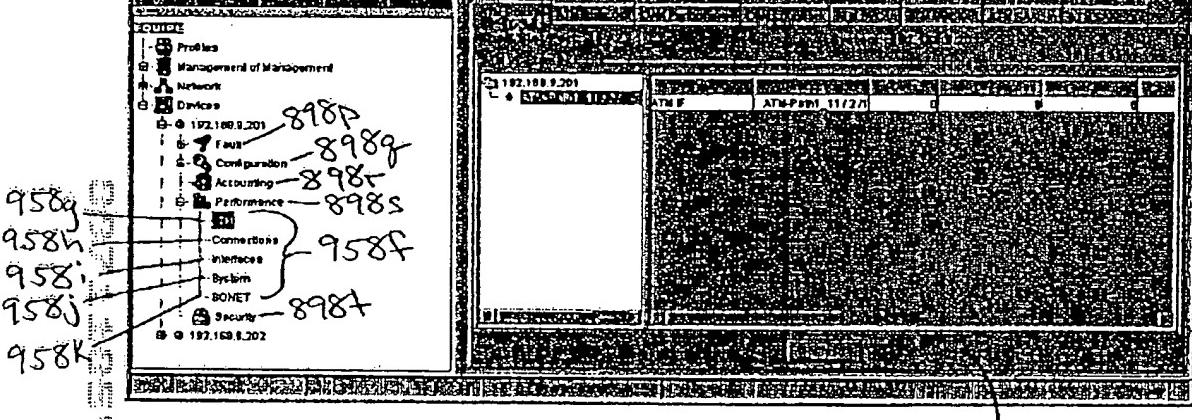


Fig. 70

958g
958h
958i
958j
958k
958l
958m

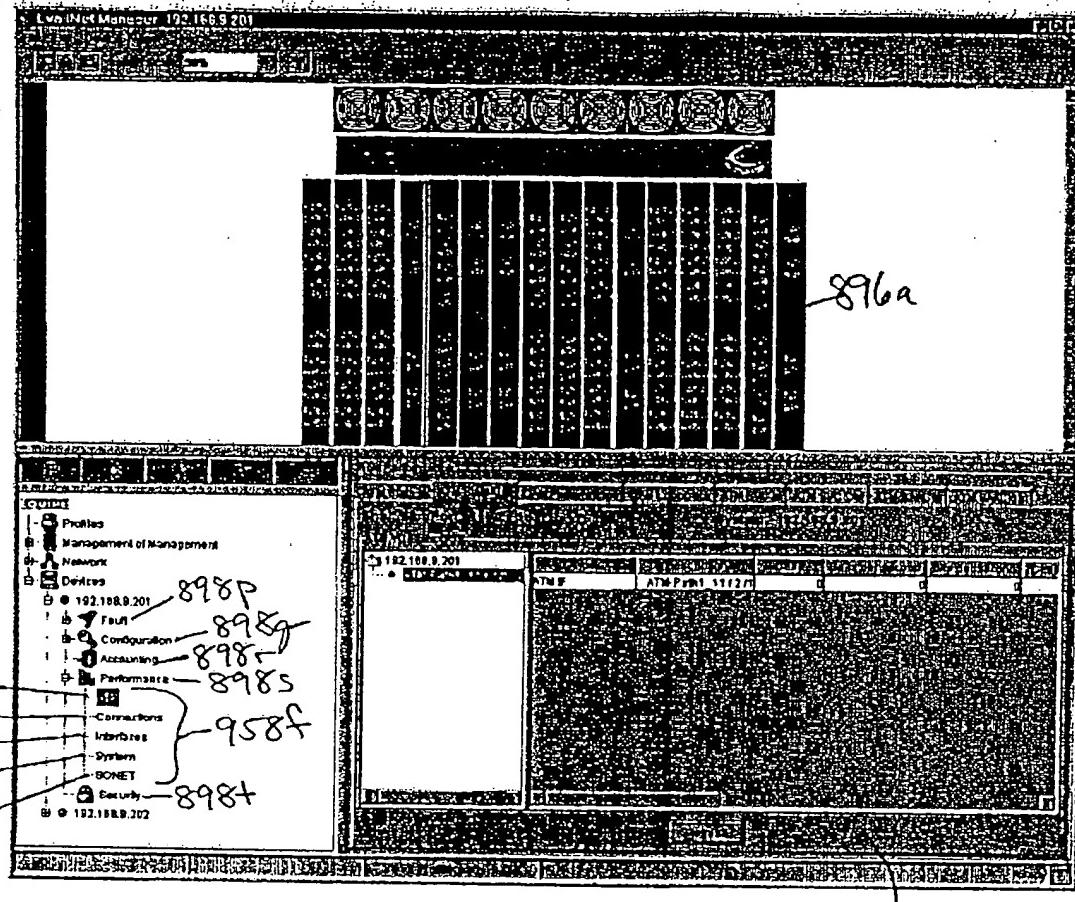


Fig. 7P

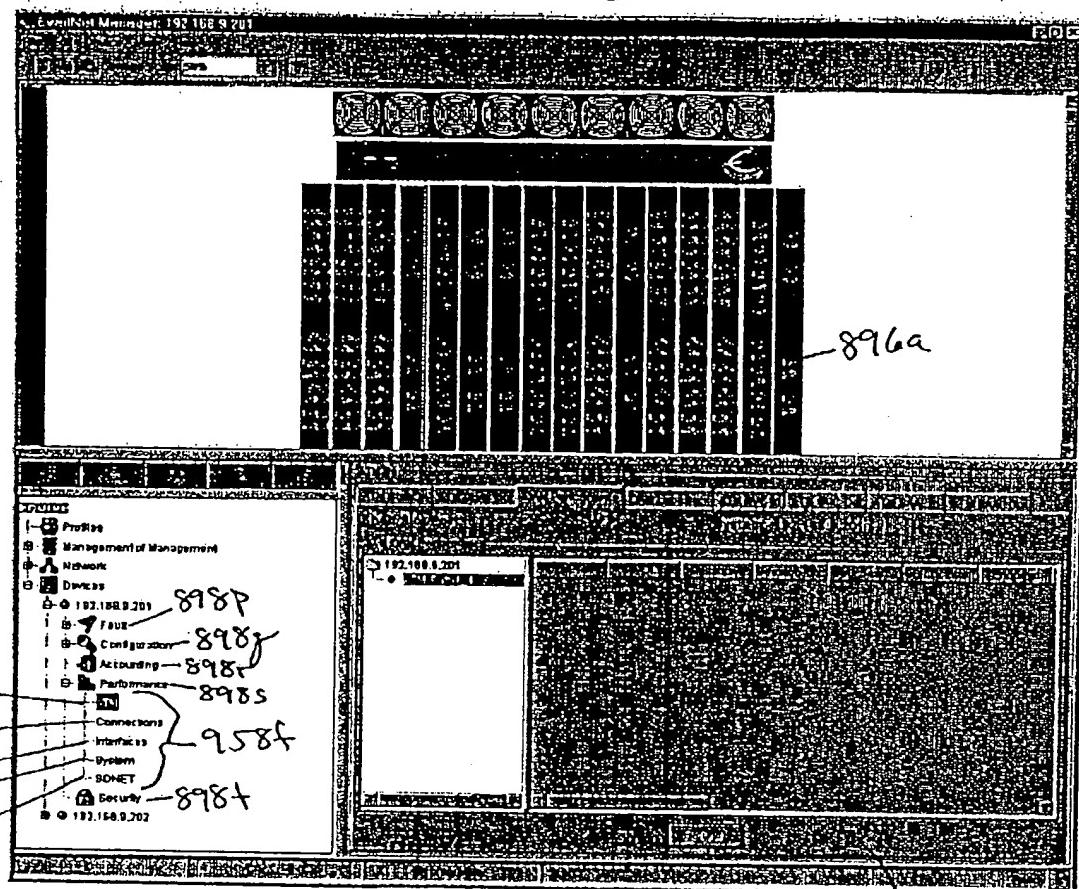


Fig. 7g

895

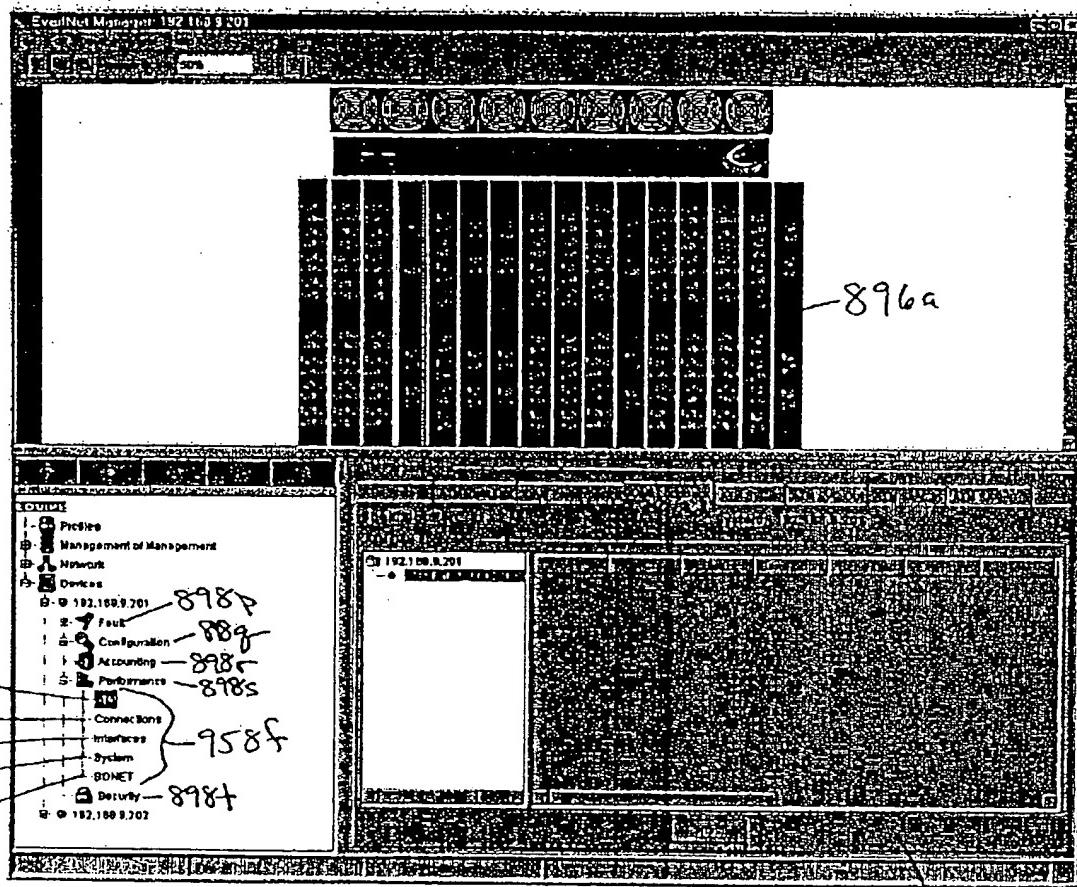
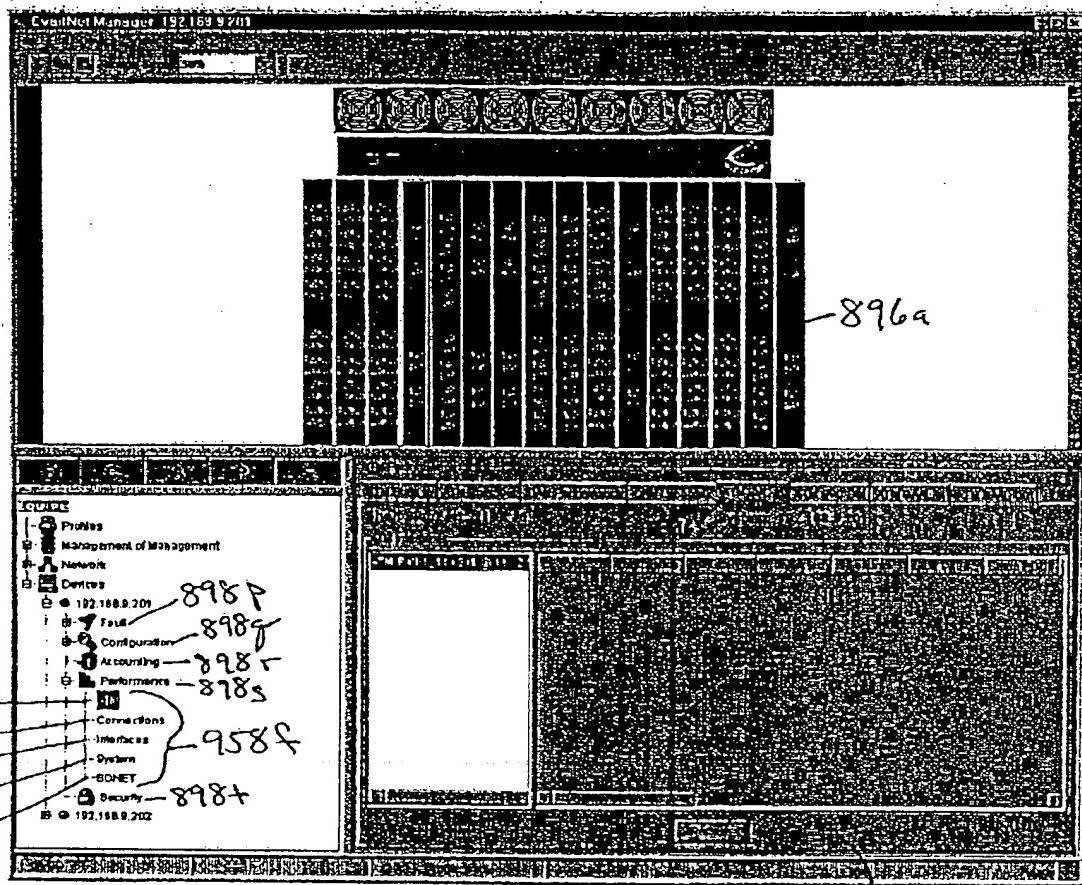


Fig. 7-

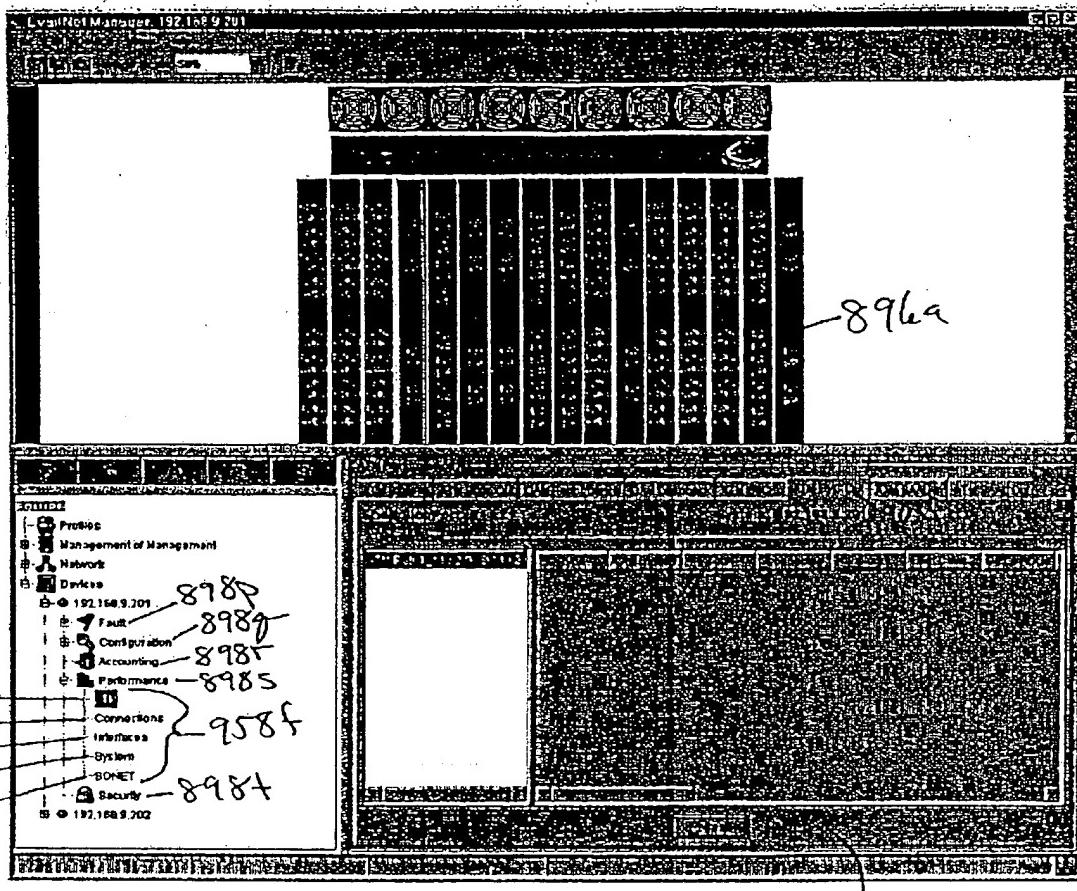
895



897

Fig. 7s

895



896a

897

Fig. 7+

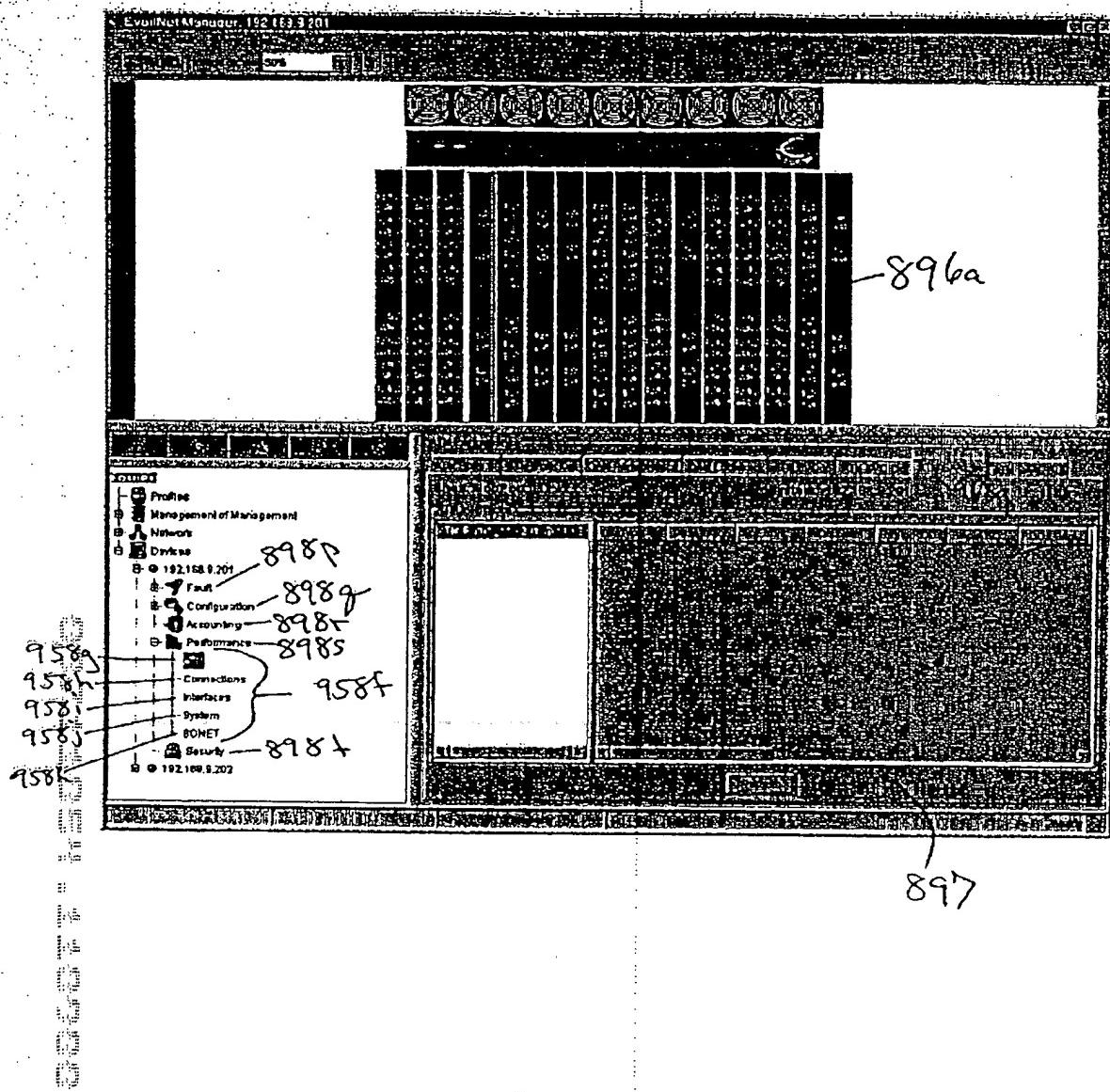
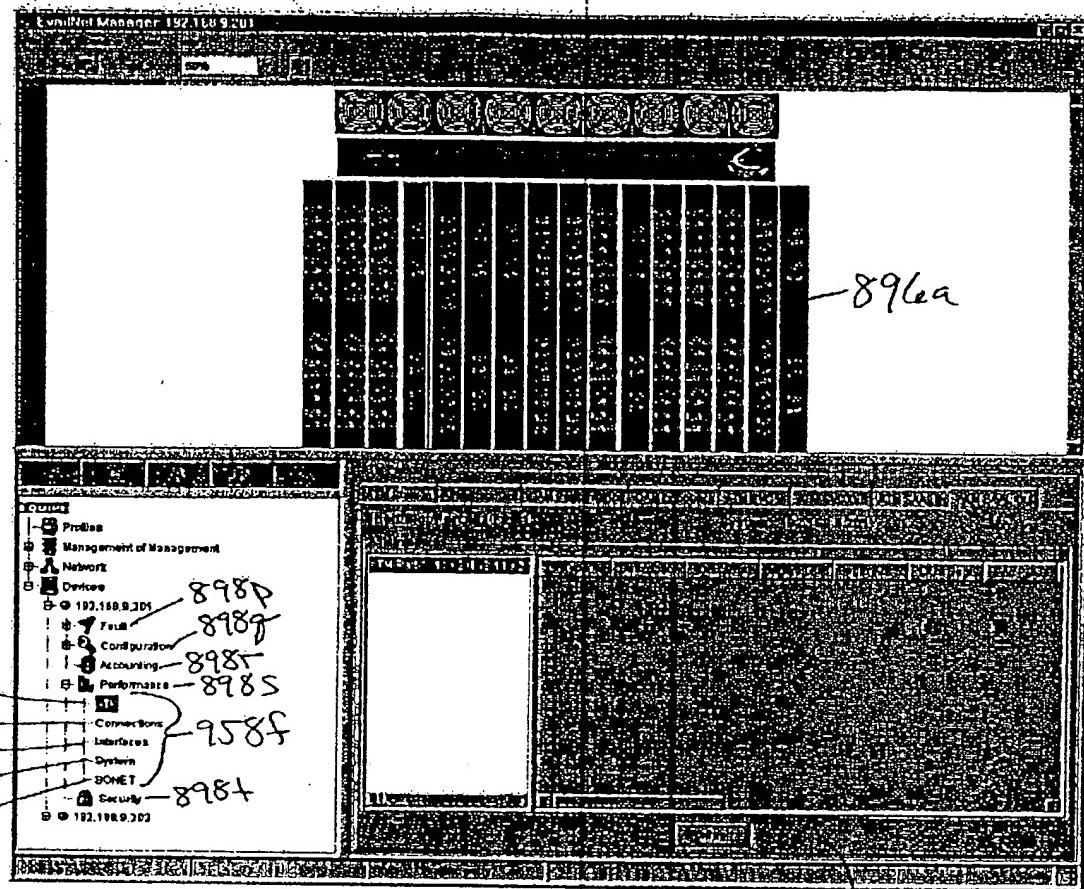


Fig. 7u

895



897

Fig. 7v

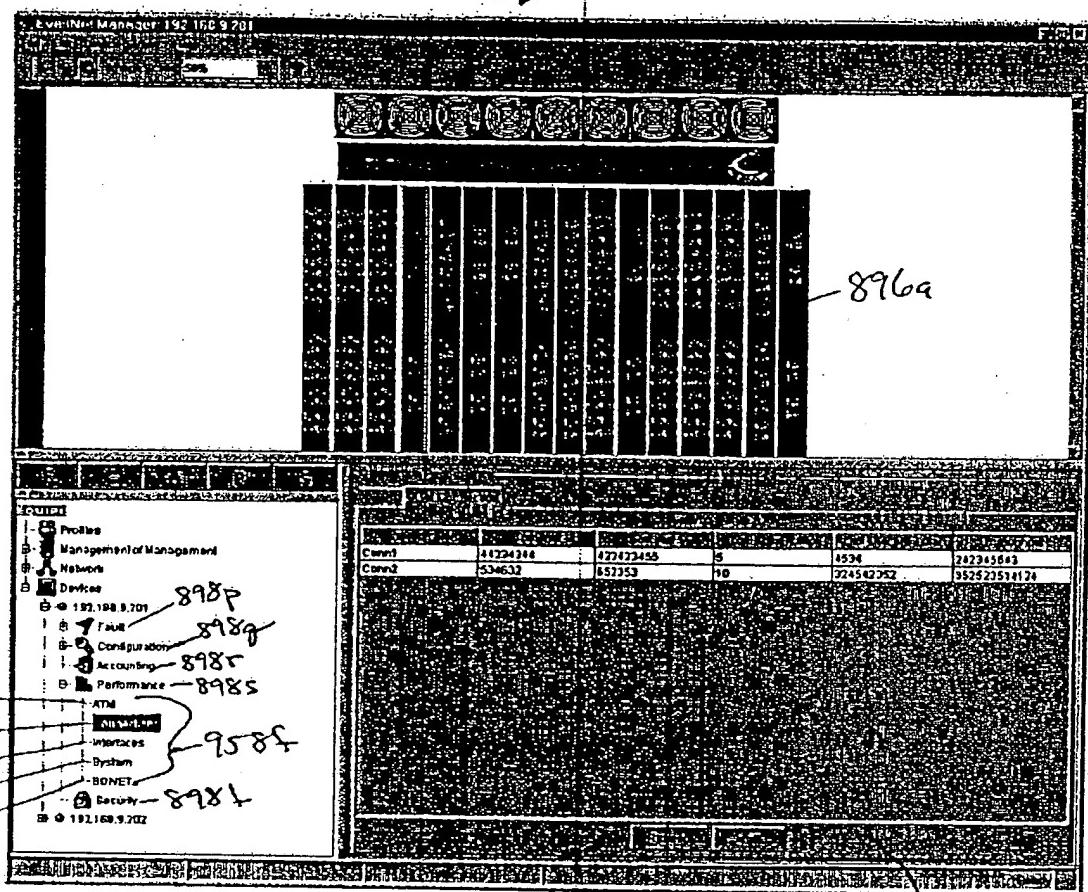
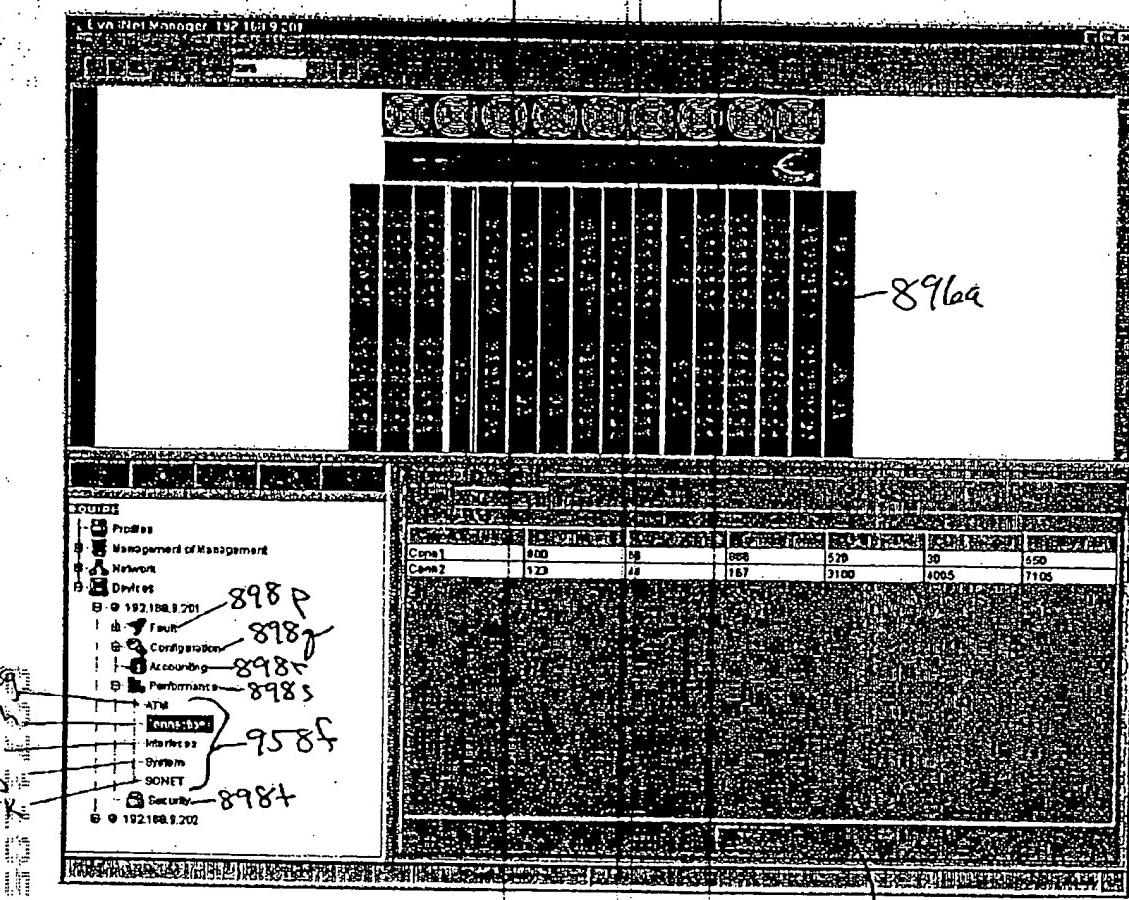


Fig. 7w

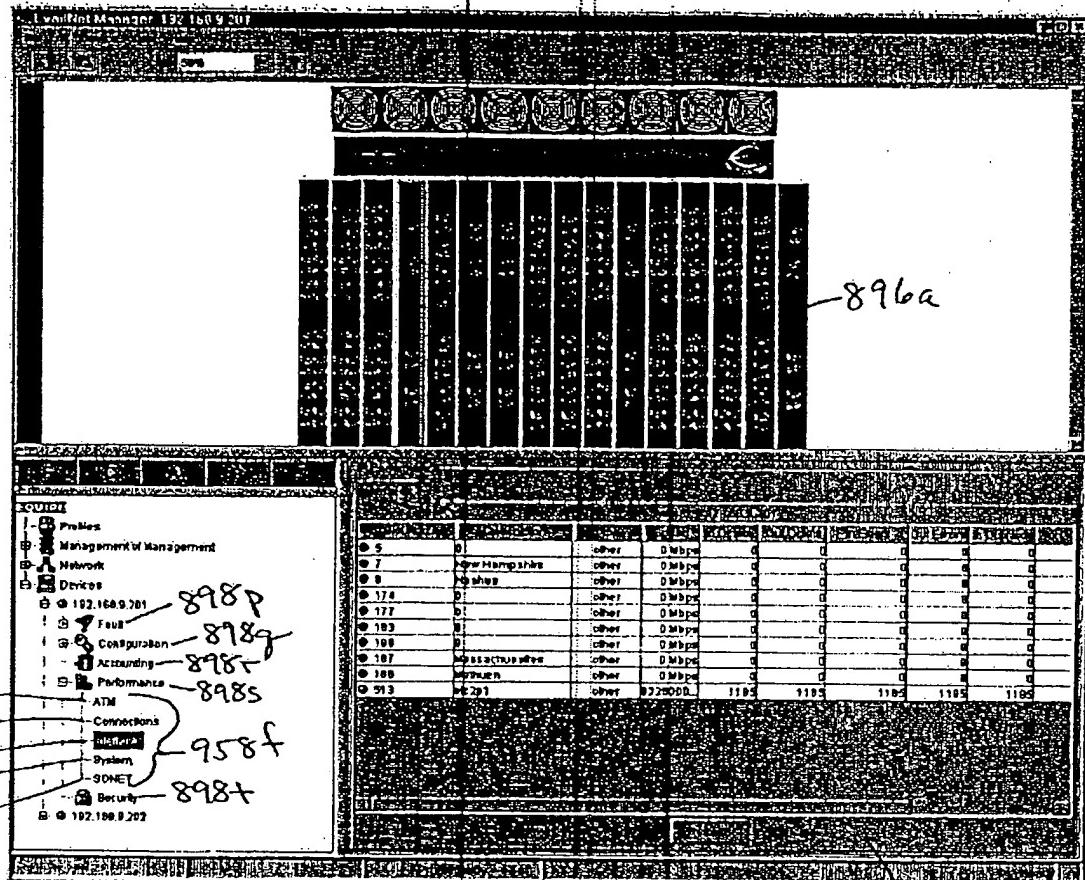


895

-896a

897

Fig. 7X



897

Fig. 7y

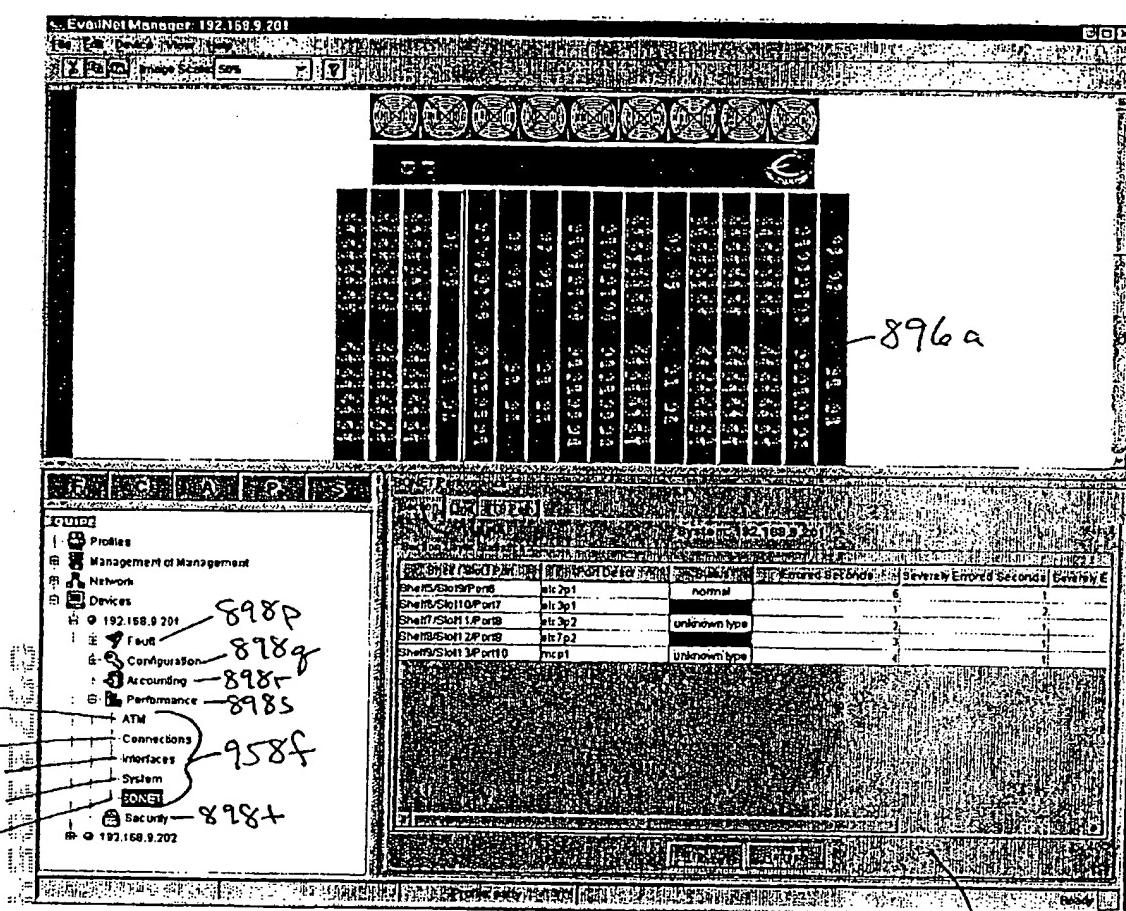


Fig. 8a

895

896a

897

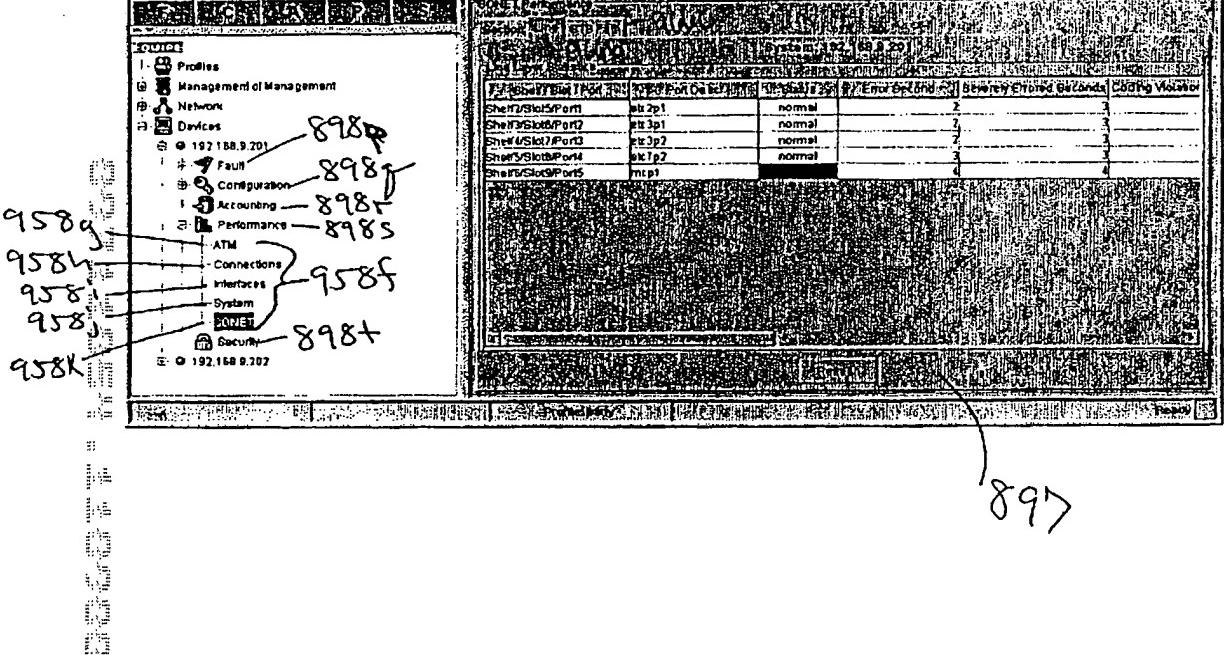


Fig. 8b

895

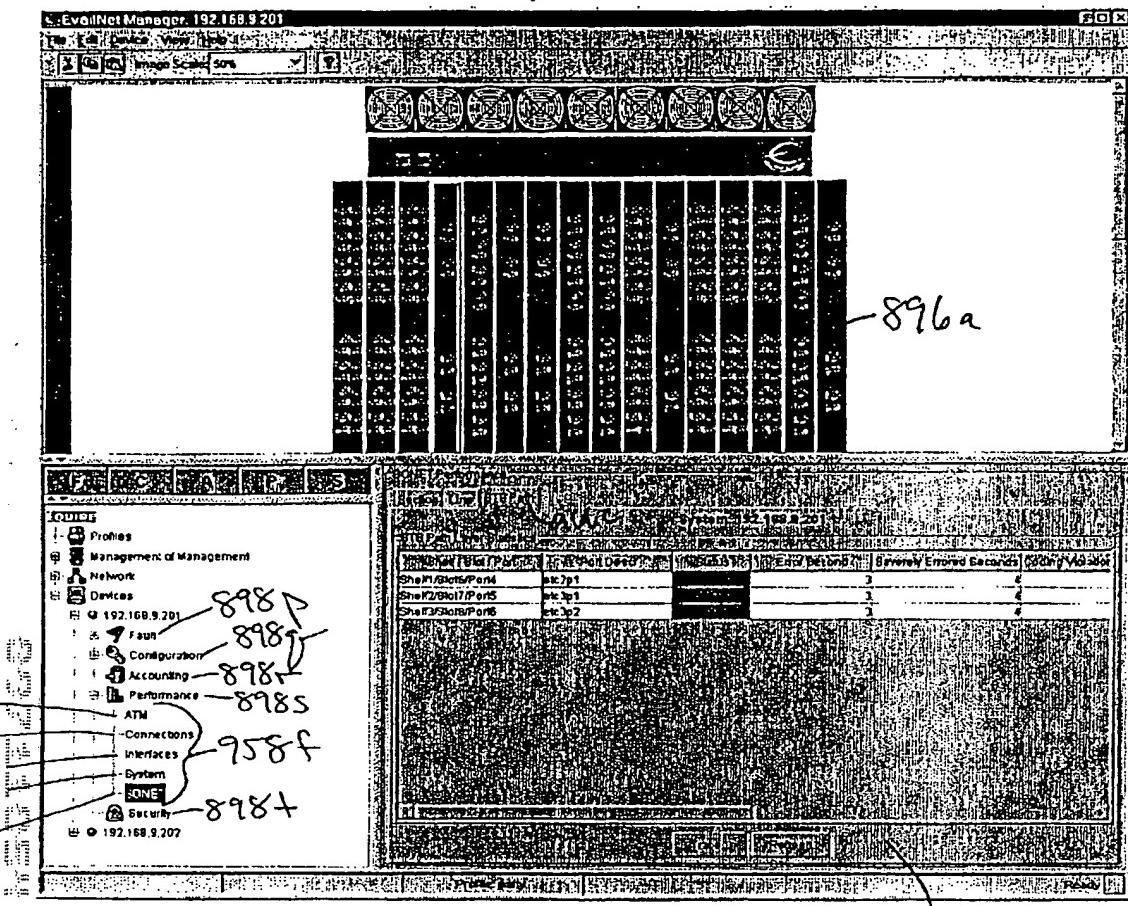
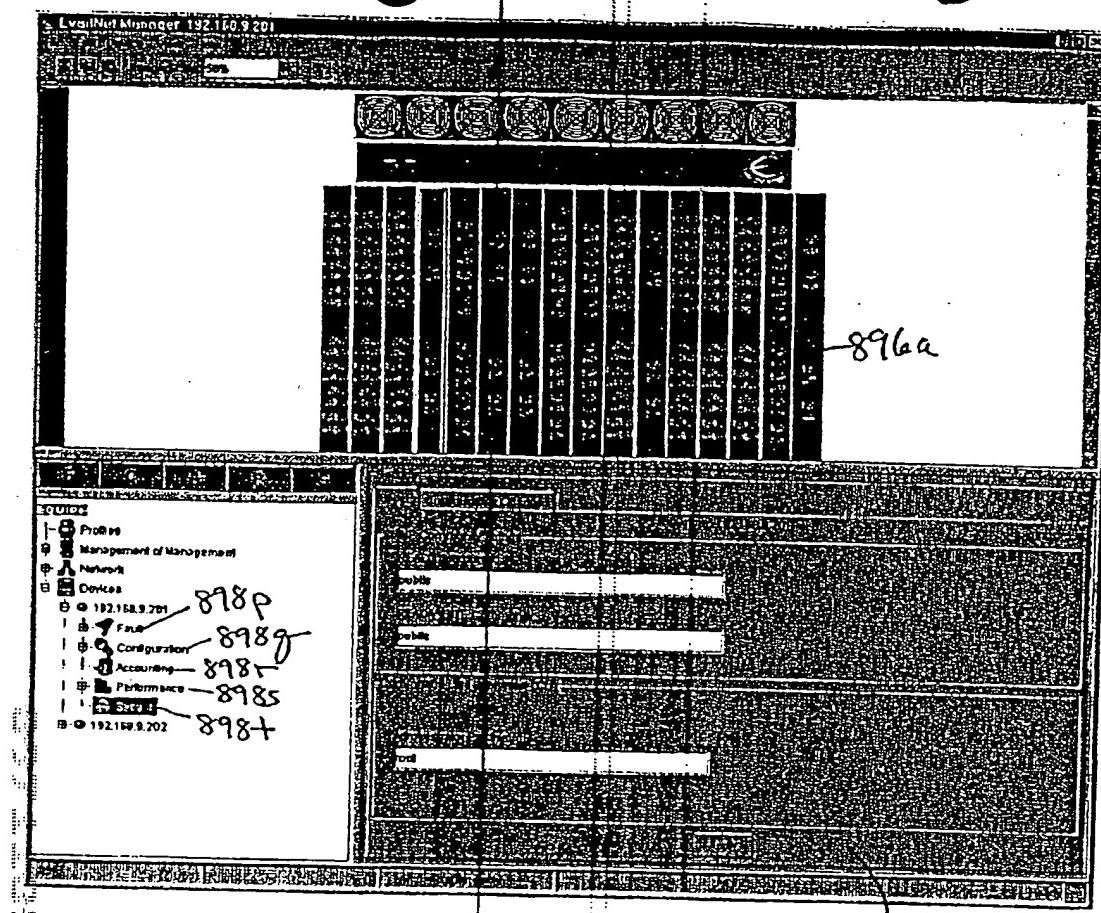


Fig. 8c



897

Fig. 8d

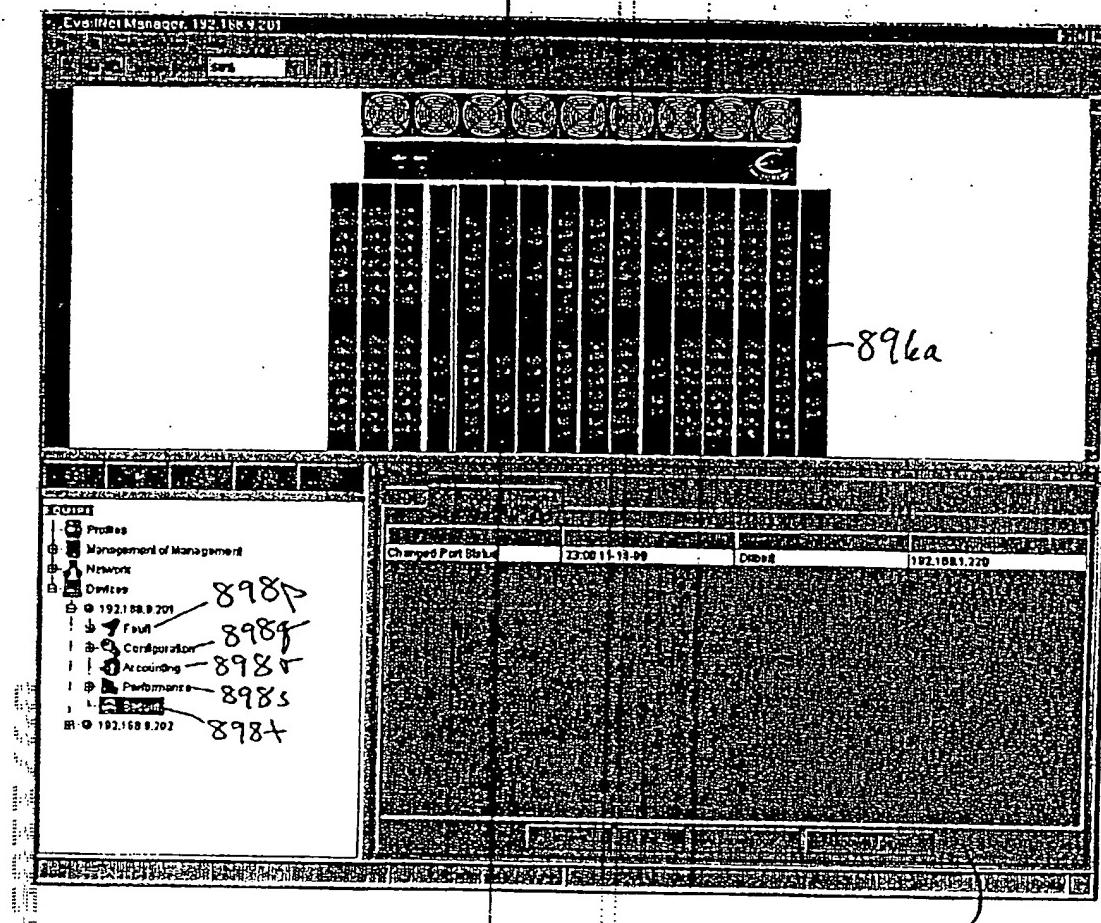


Fig. 8e

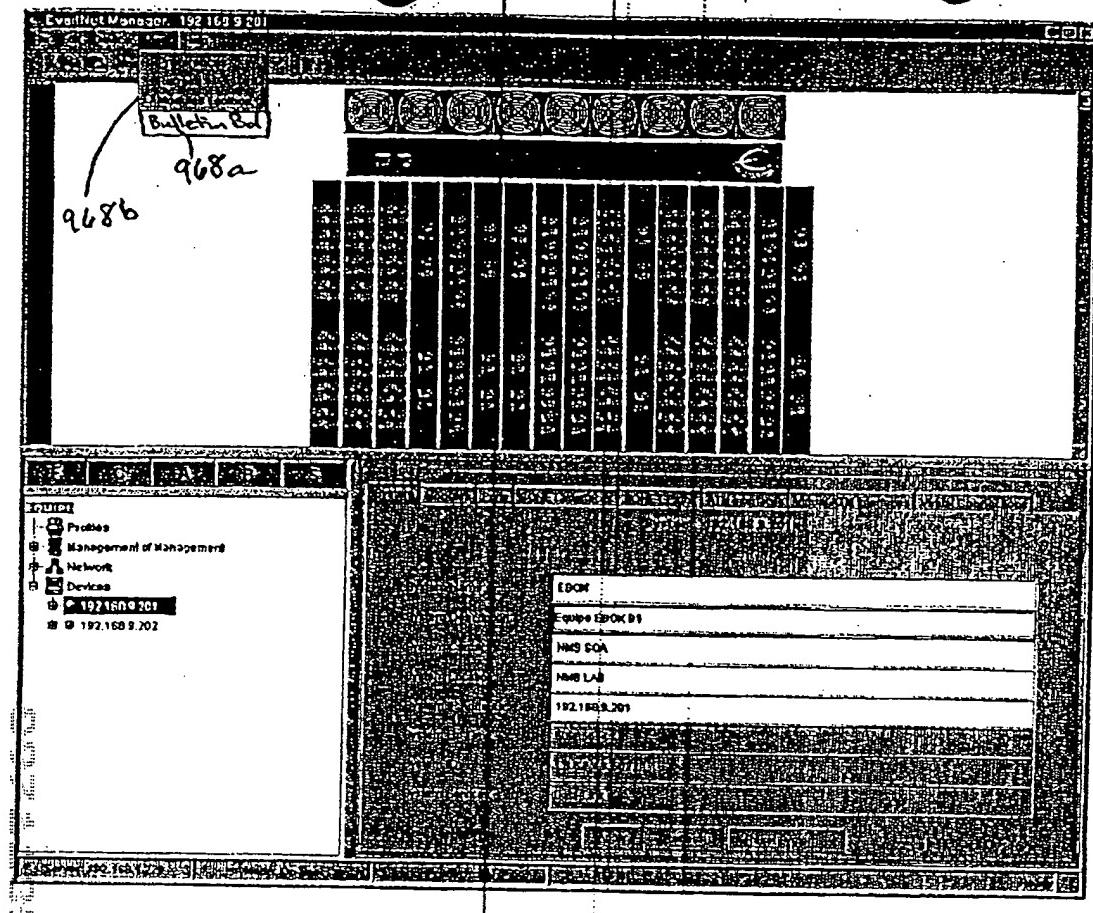


Fig. 9a

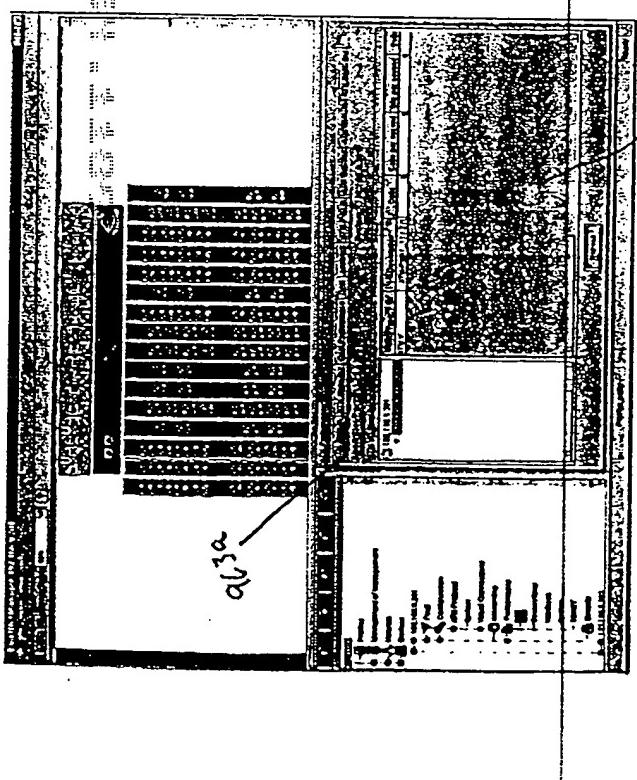
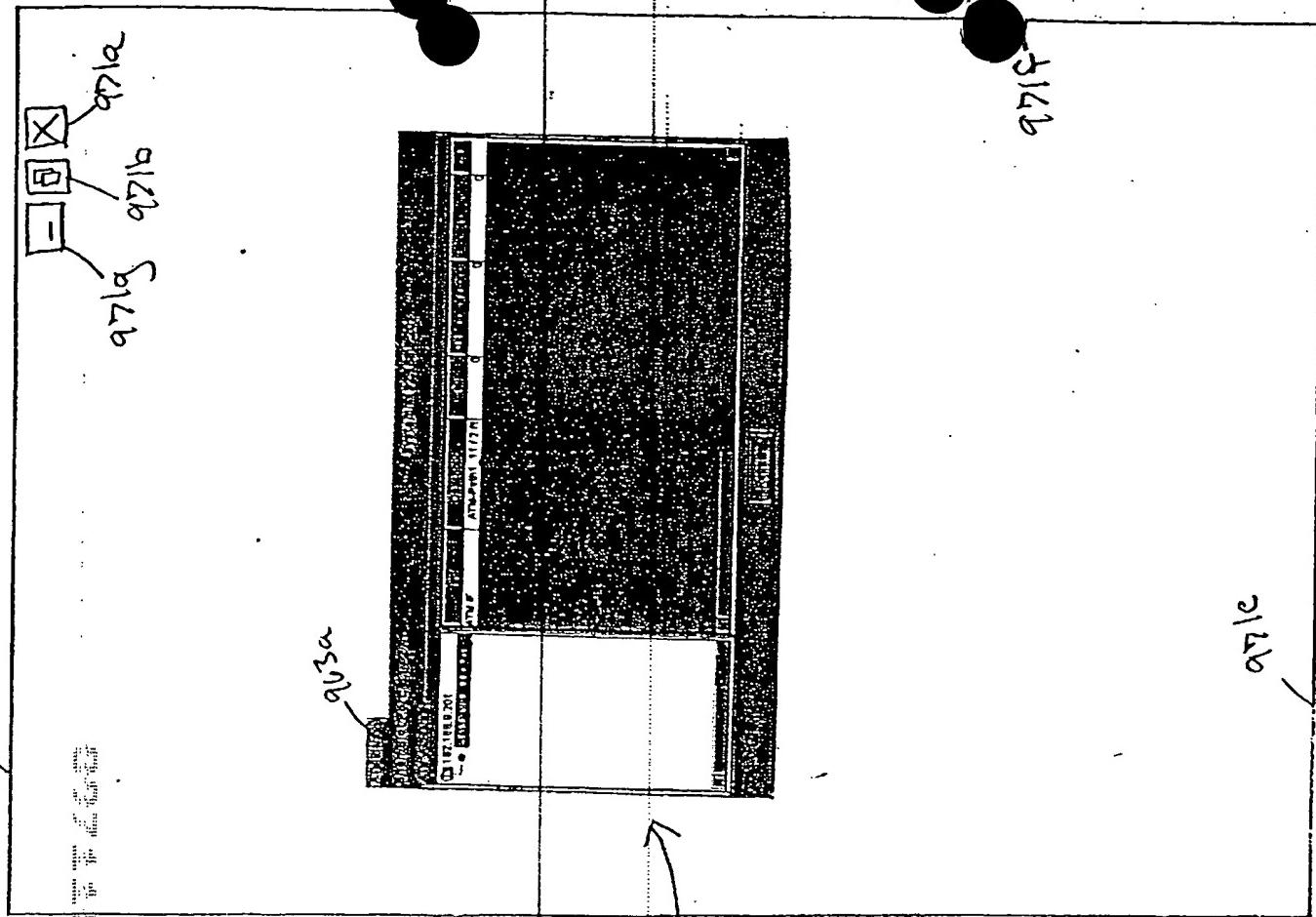


Fig. 9b

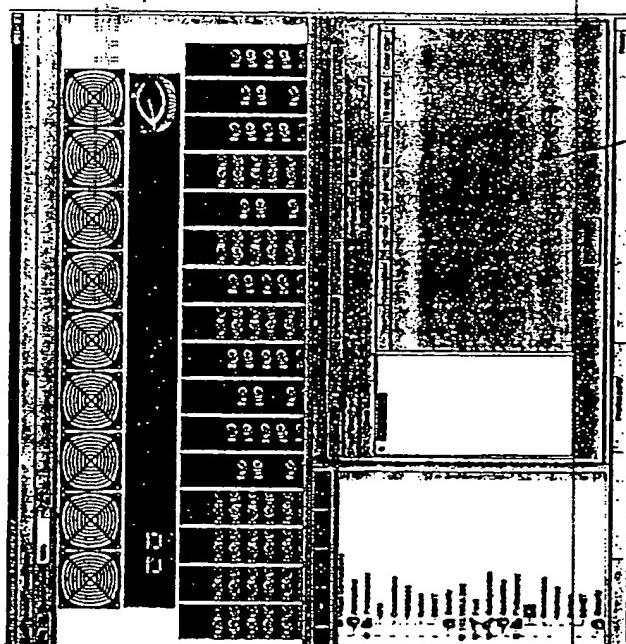
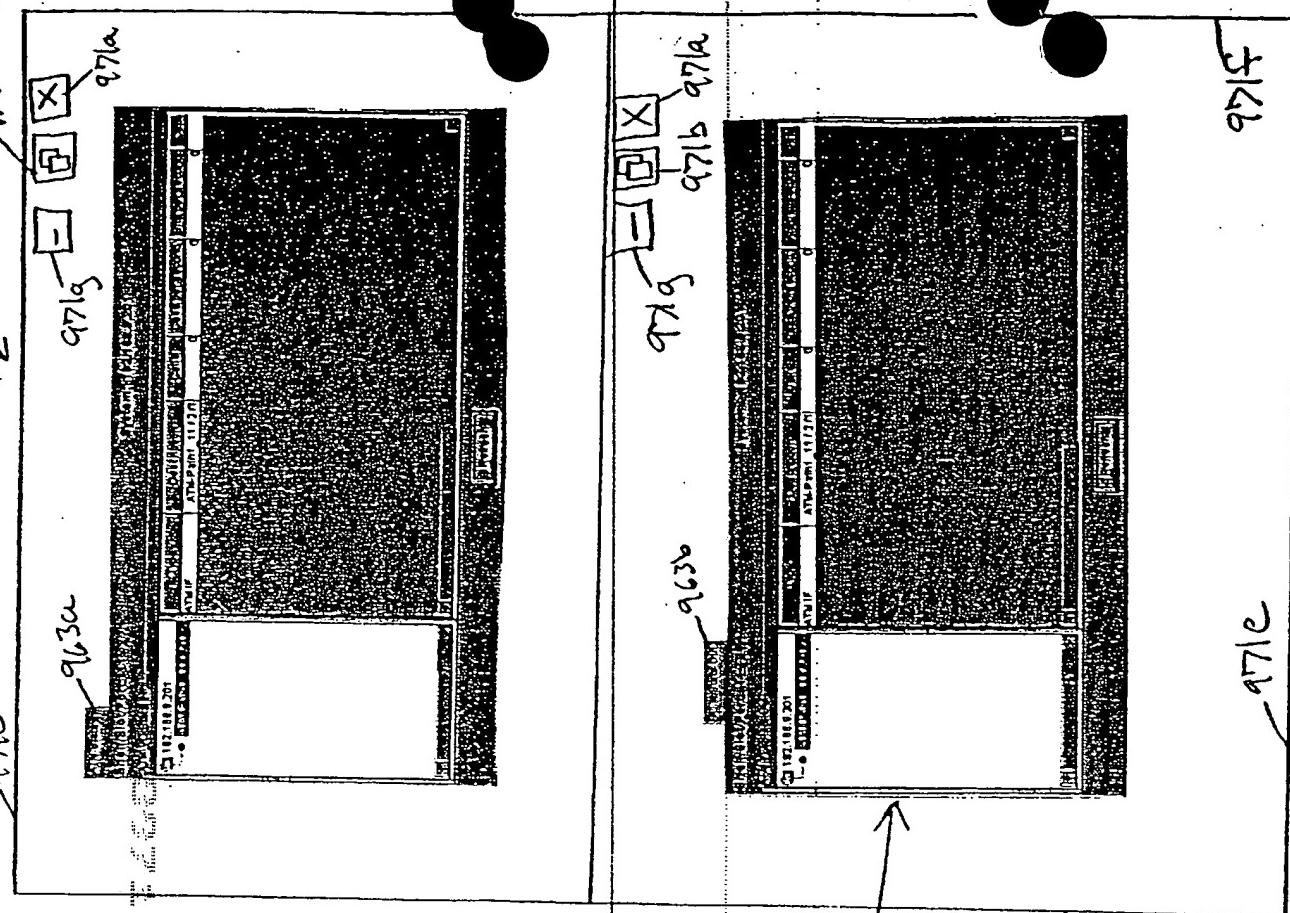


Fig. 9c

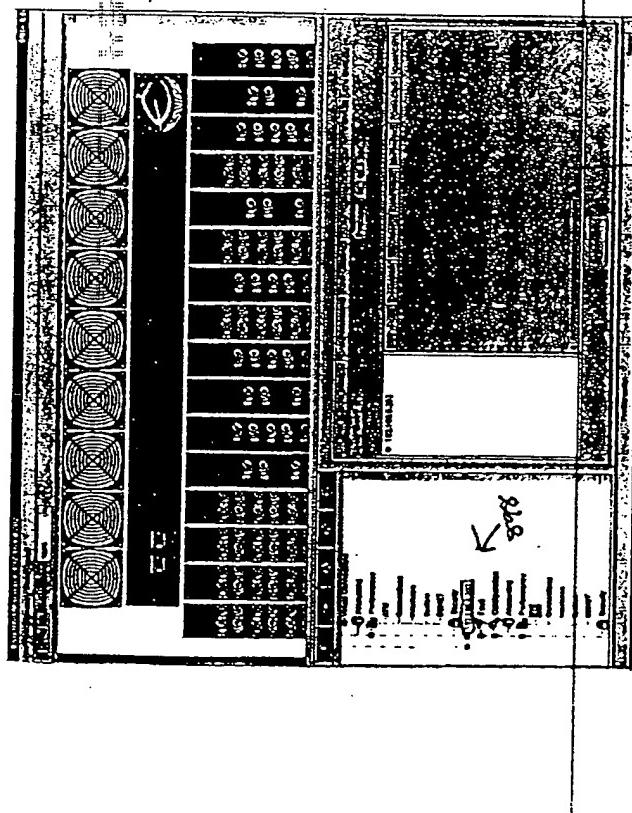
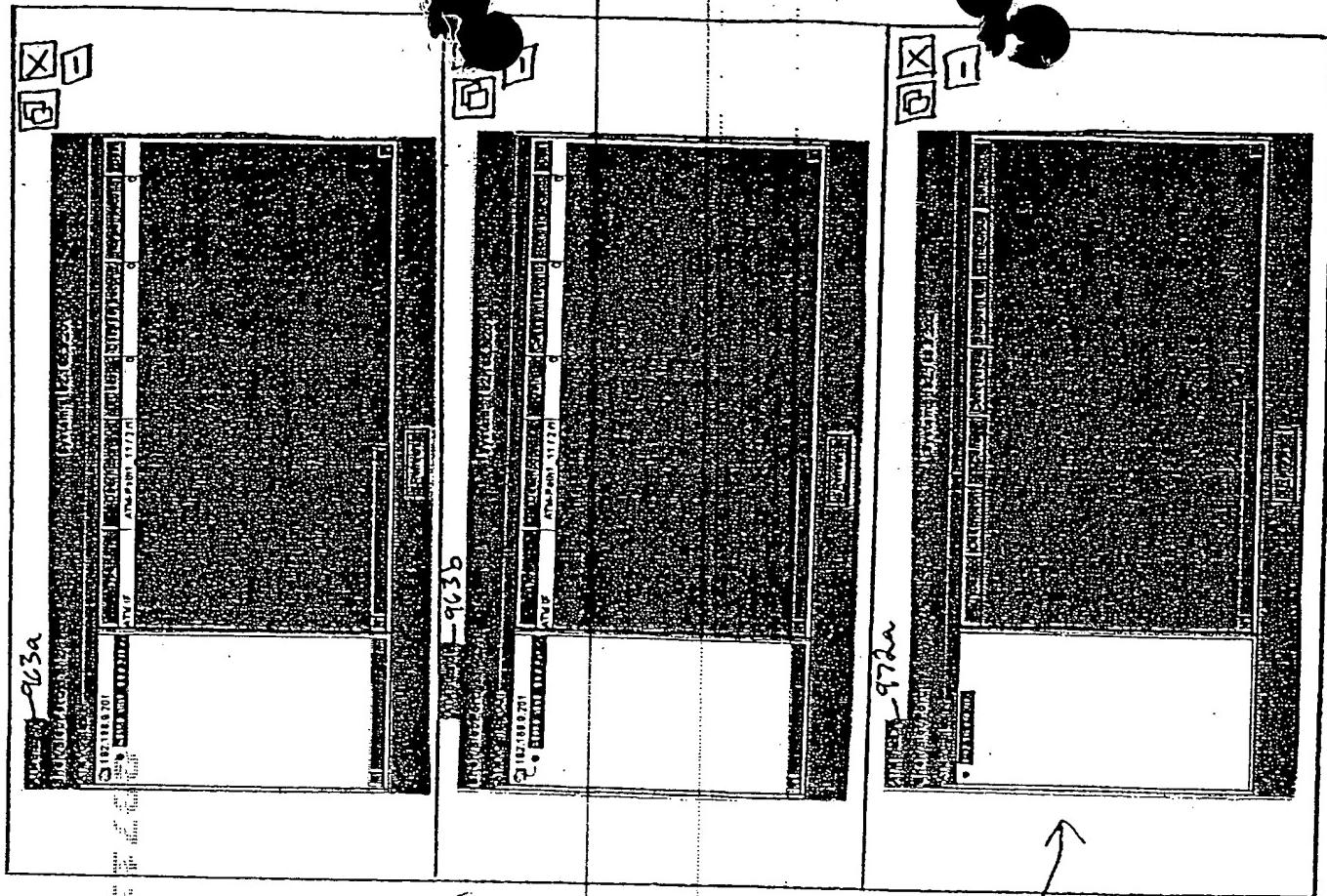
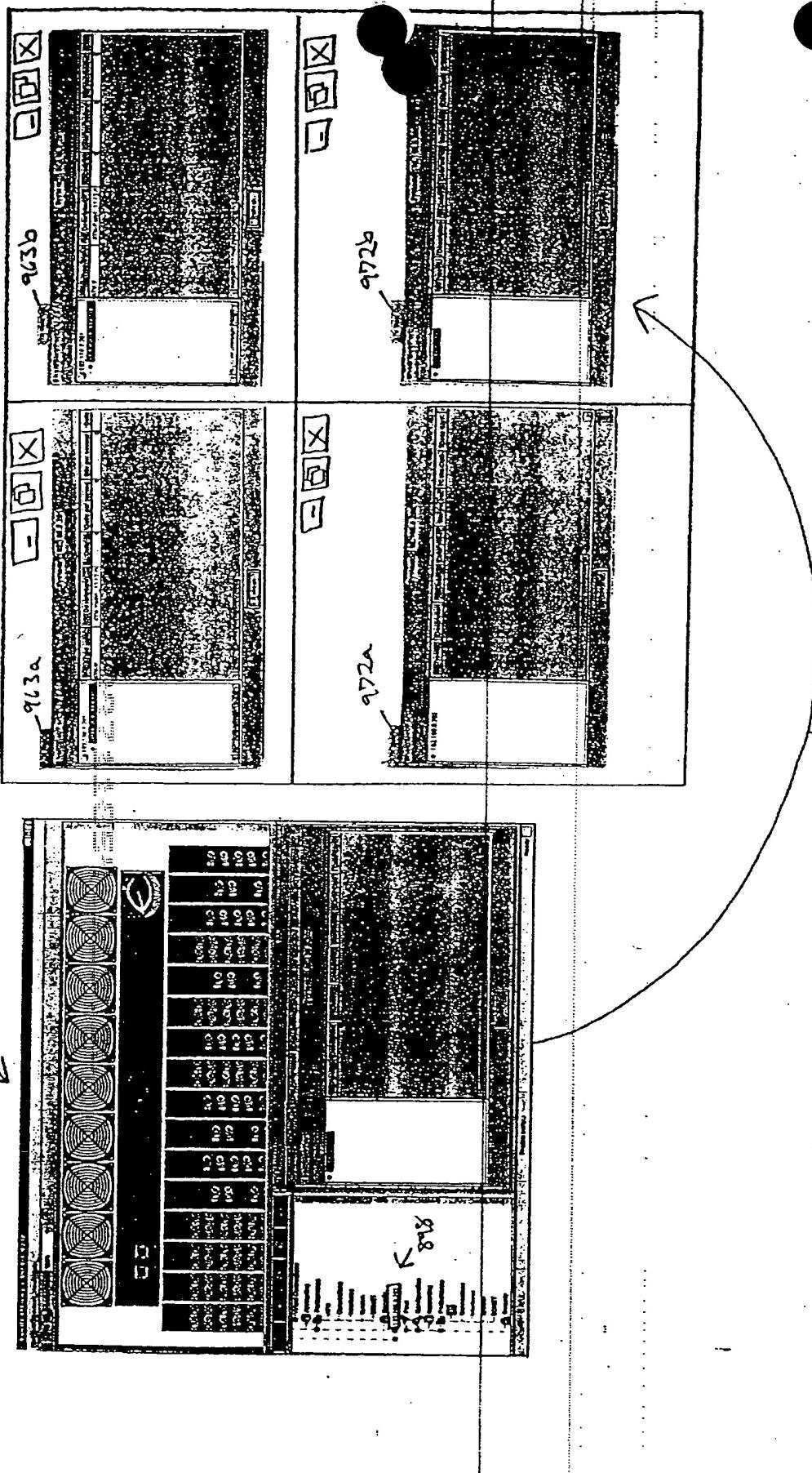


Fig. 9d

Fig. 9e



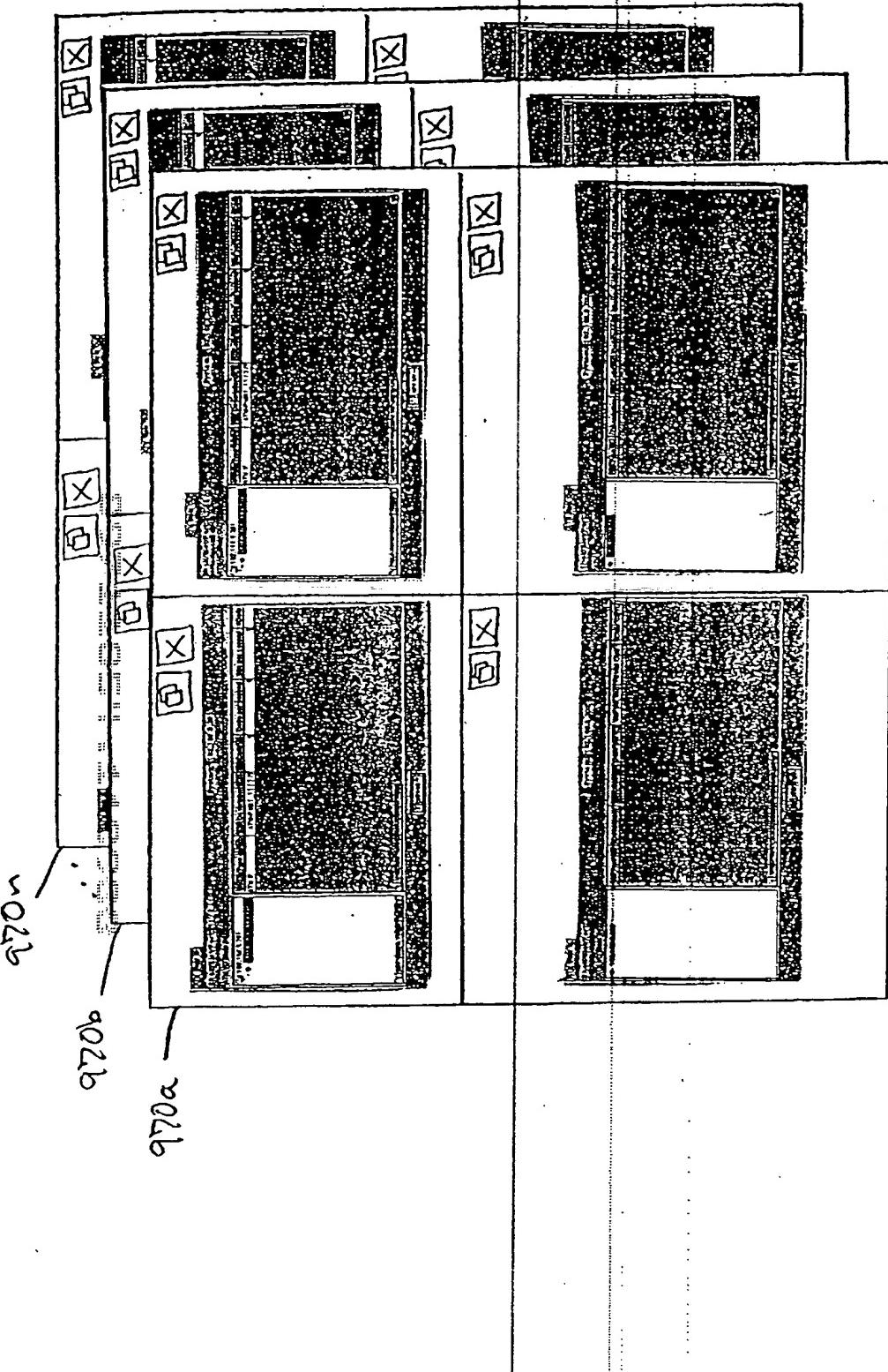
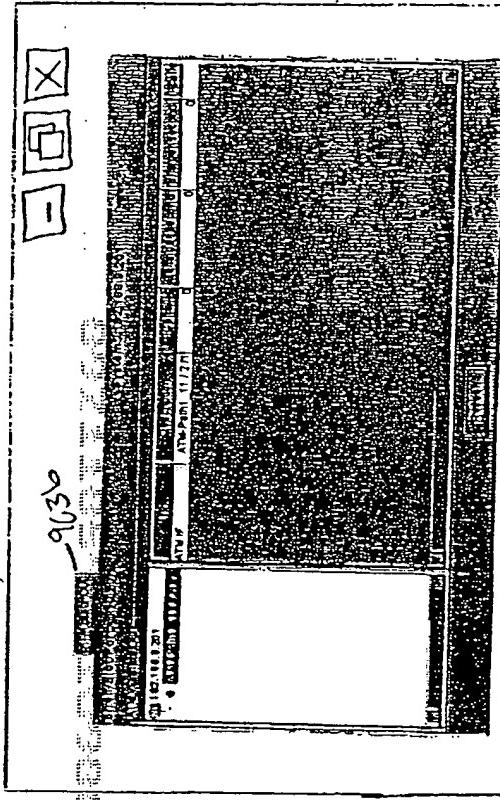


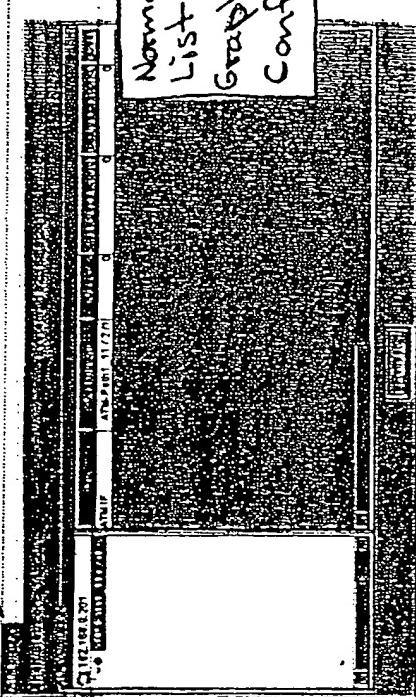
Fig. 9c

970a



963c

963a



973
973a
973b
973c
973d
Normal
List
Graph
Config

Fig. 9g

LNUA

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

System: 192.168.9.201	974a
Type: ATM IF	
Description: ATM-Path 1_11/21	
Cells:	
Cells Per Second:	
Bits Per Second:	•

Faq.91

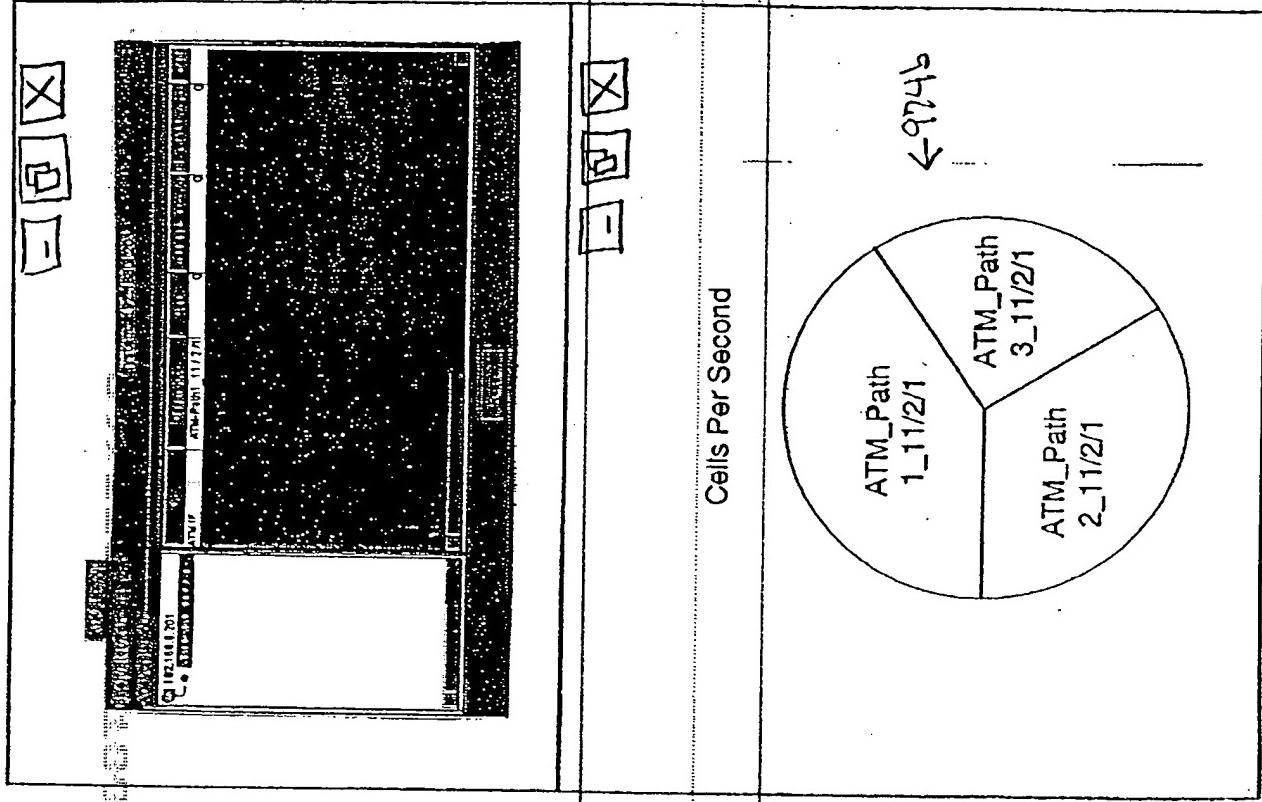


Fig. 9

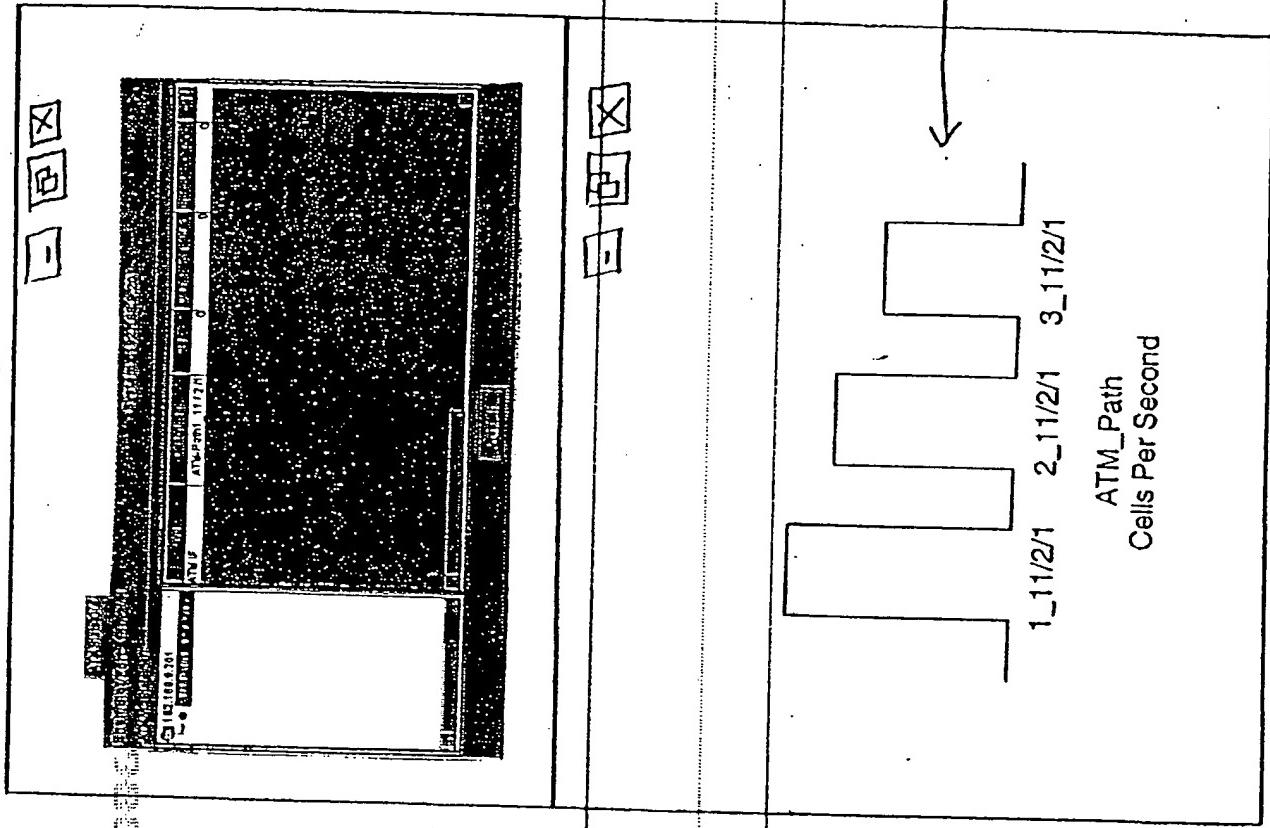


Fig. 9j

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974 of

9K

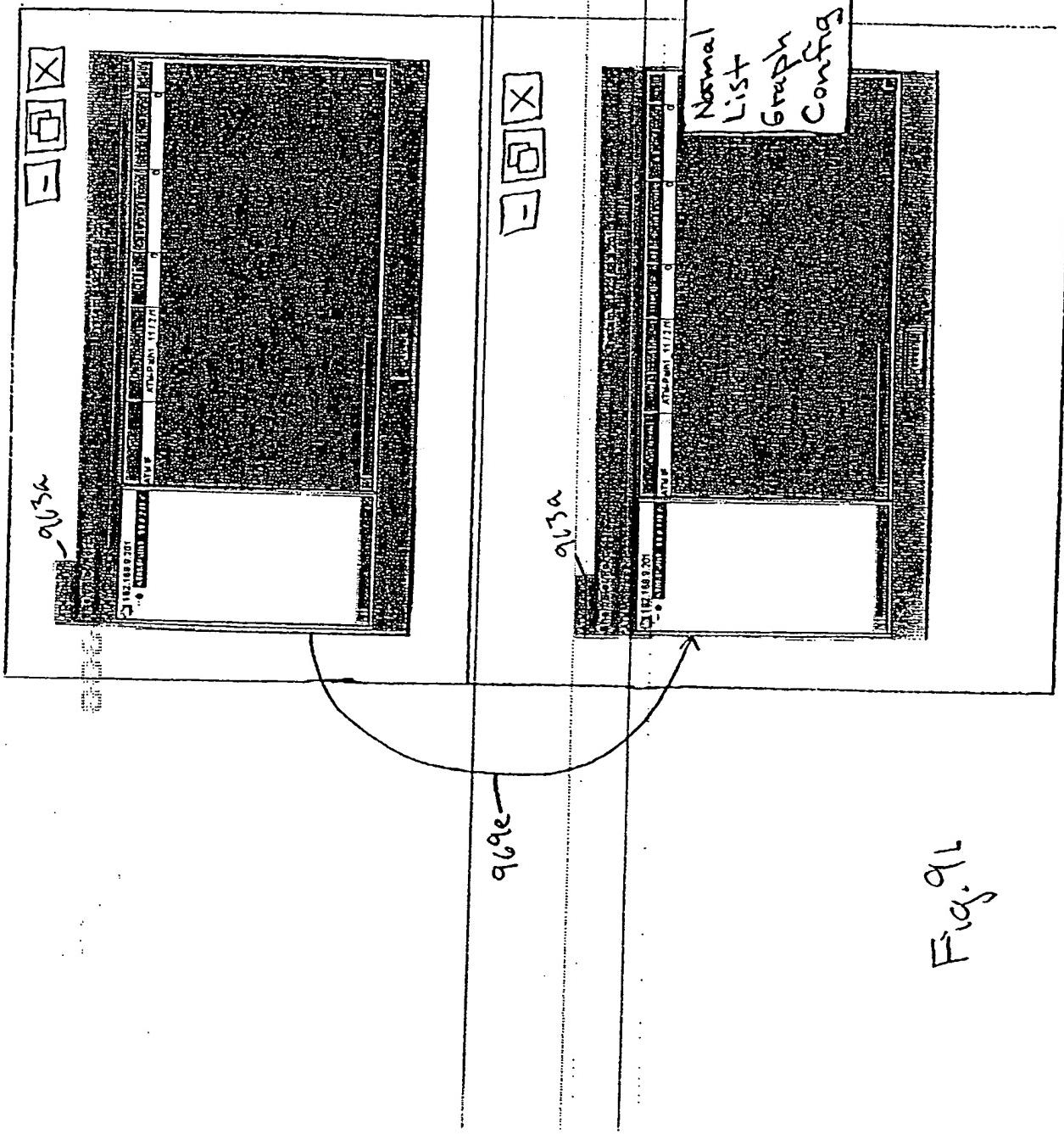


Fig. 91

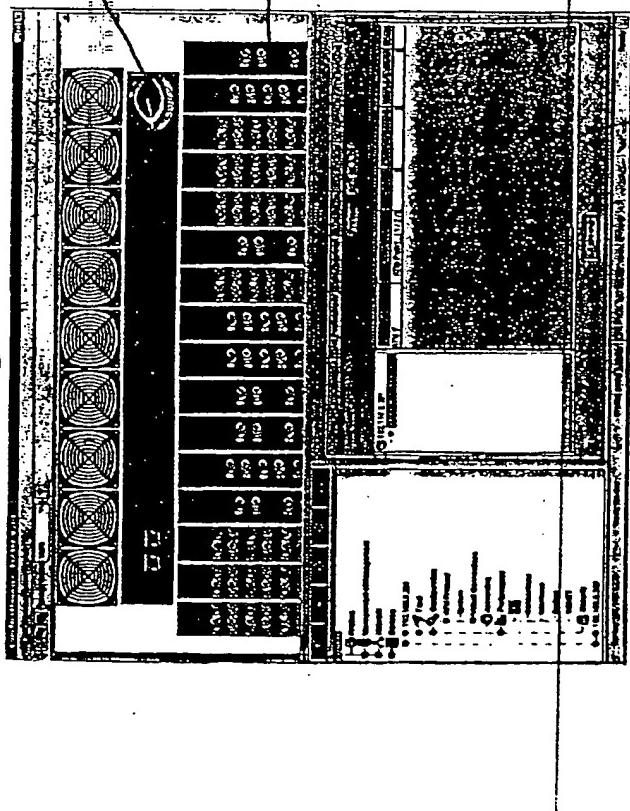
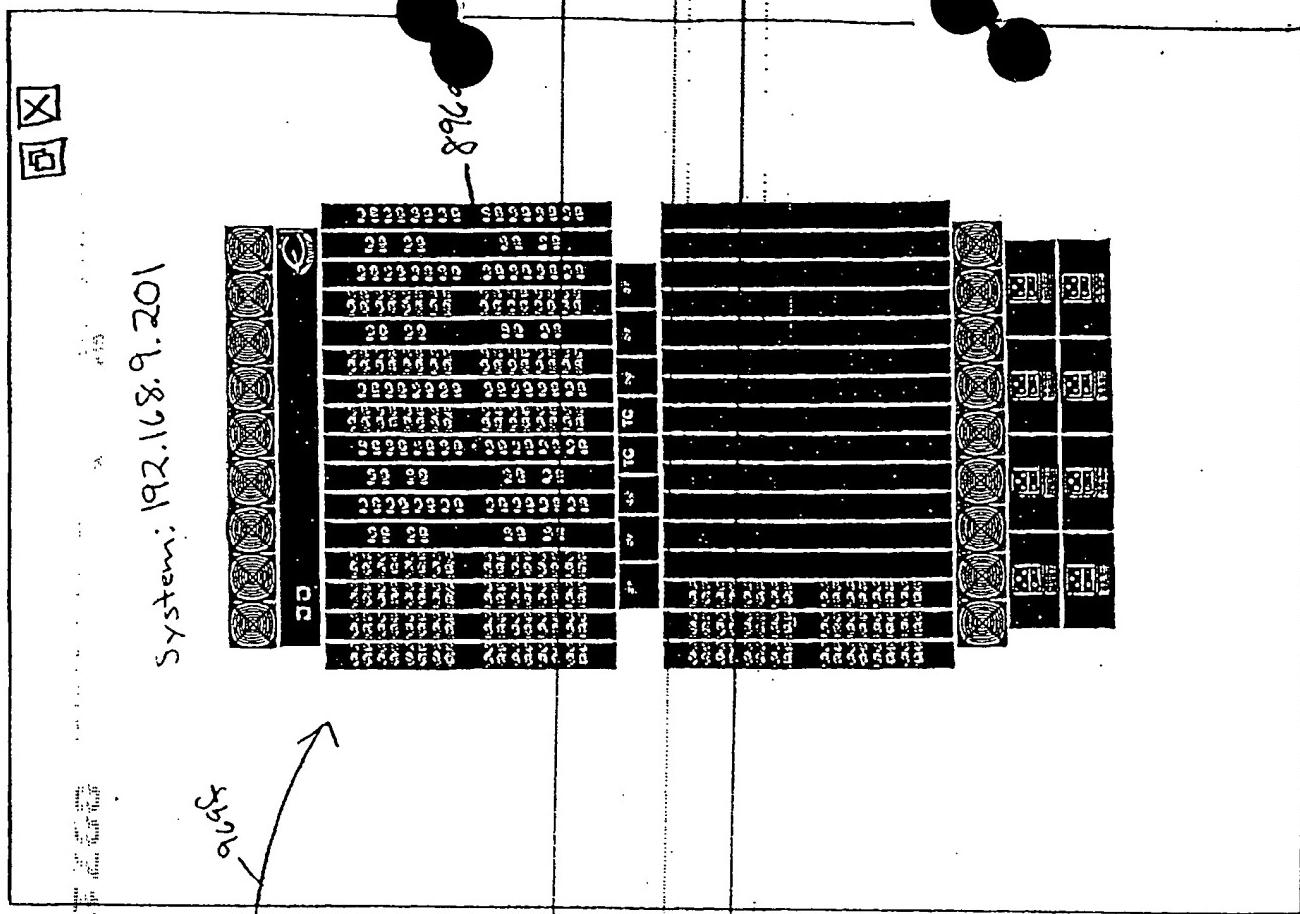
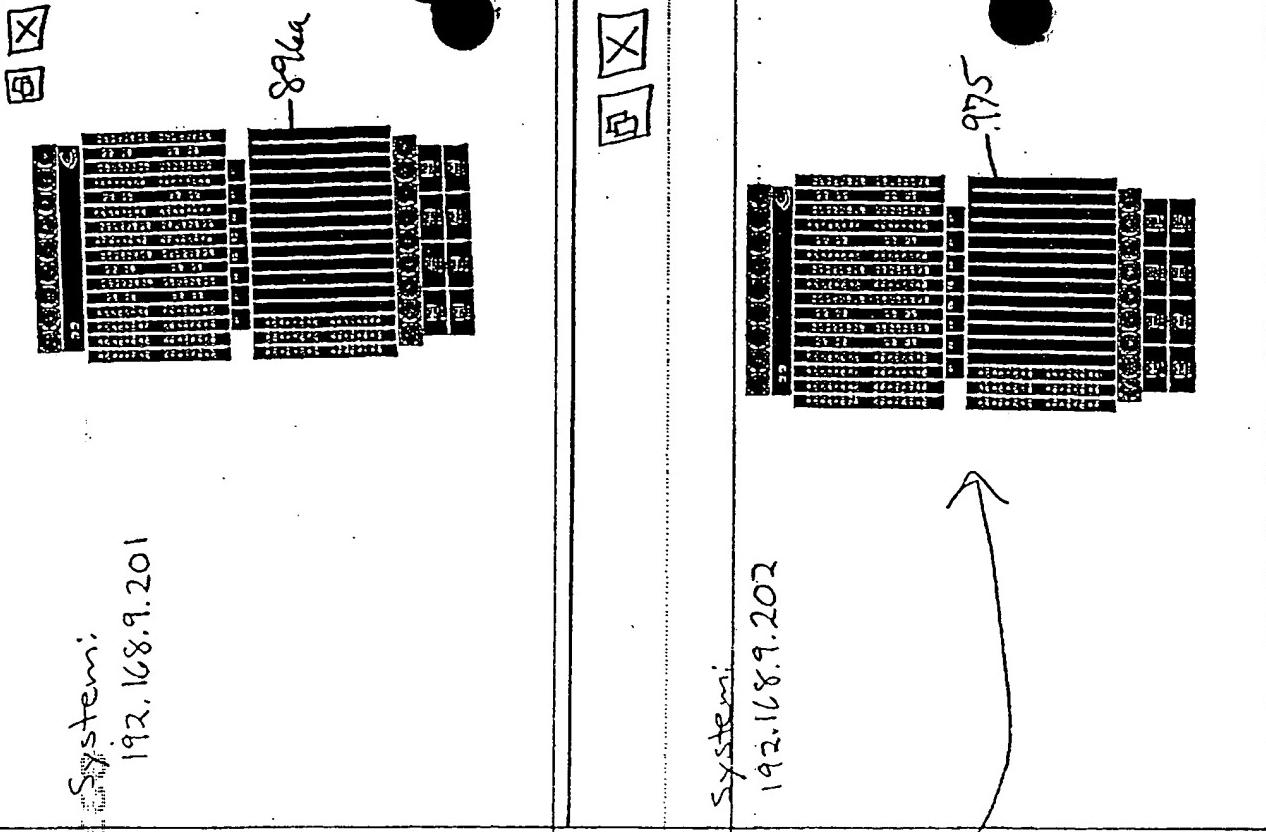


Fig. 9m

C4170a



C4175

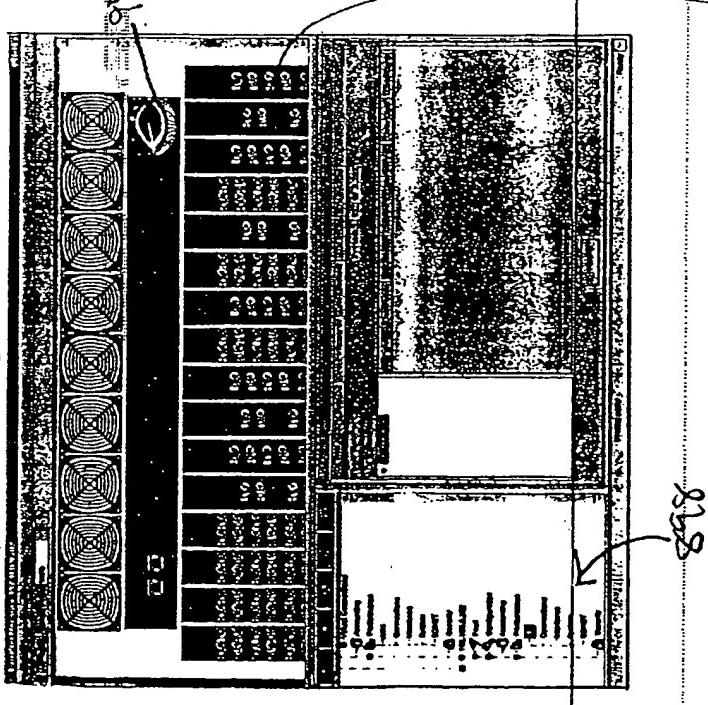


Fig. 9n

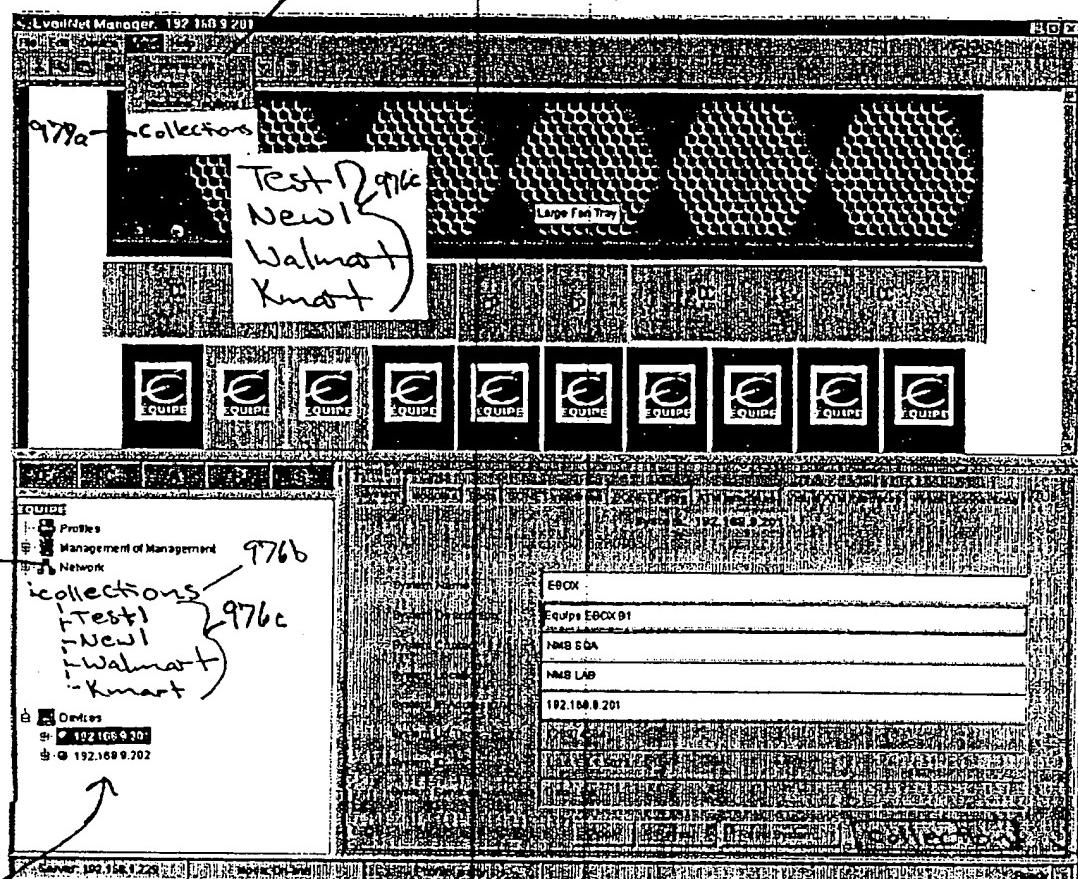
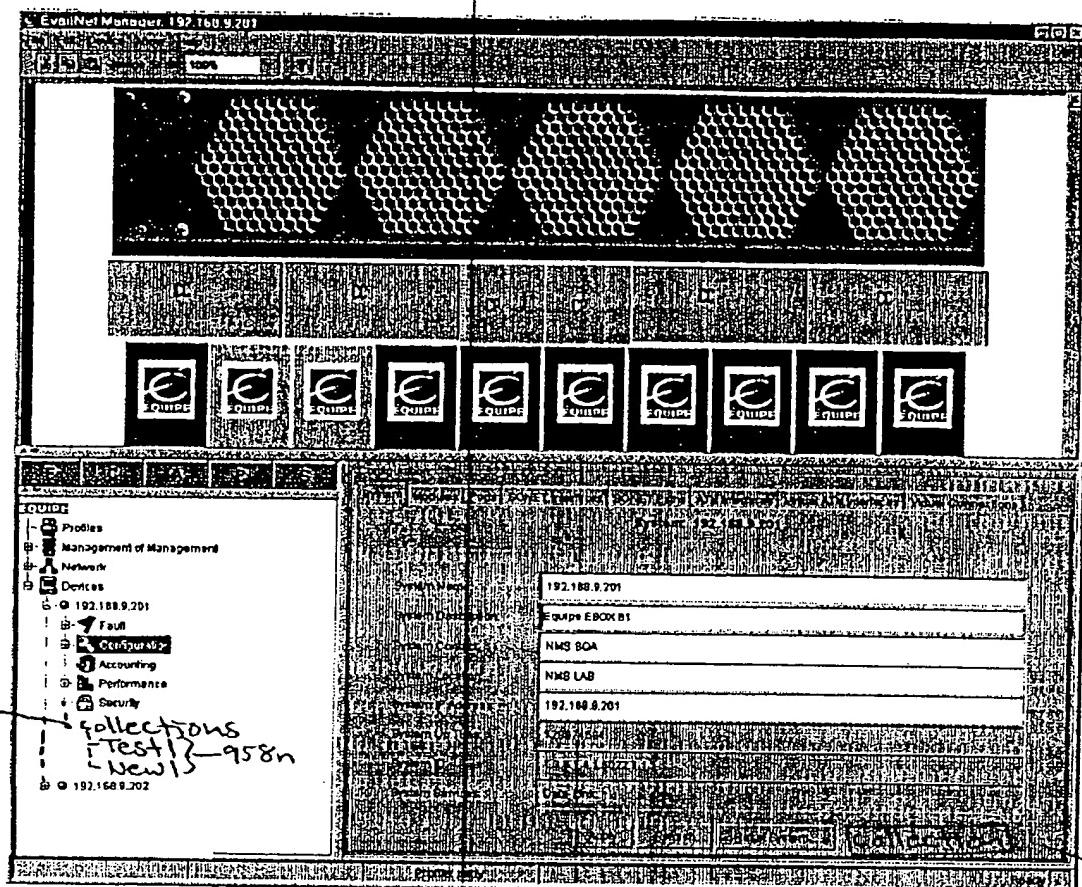


Fig.10a



895

958m

958n

897

Fig. 10b

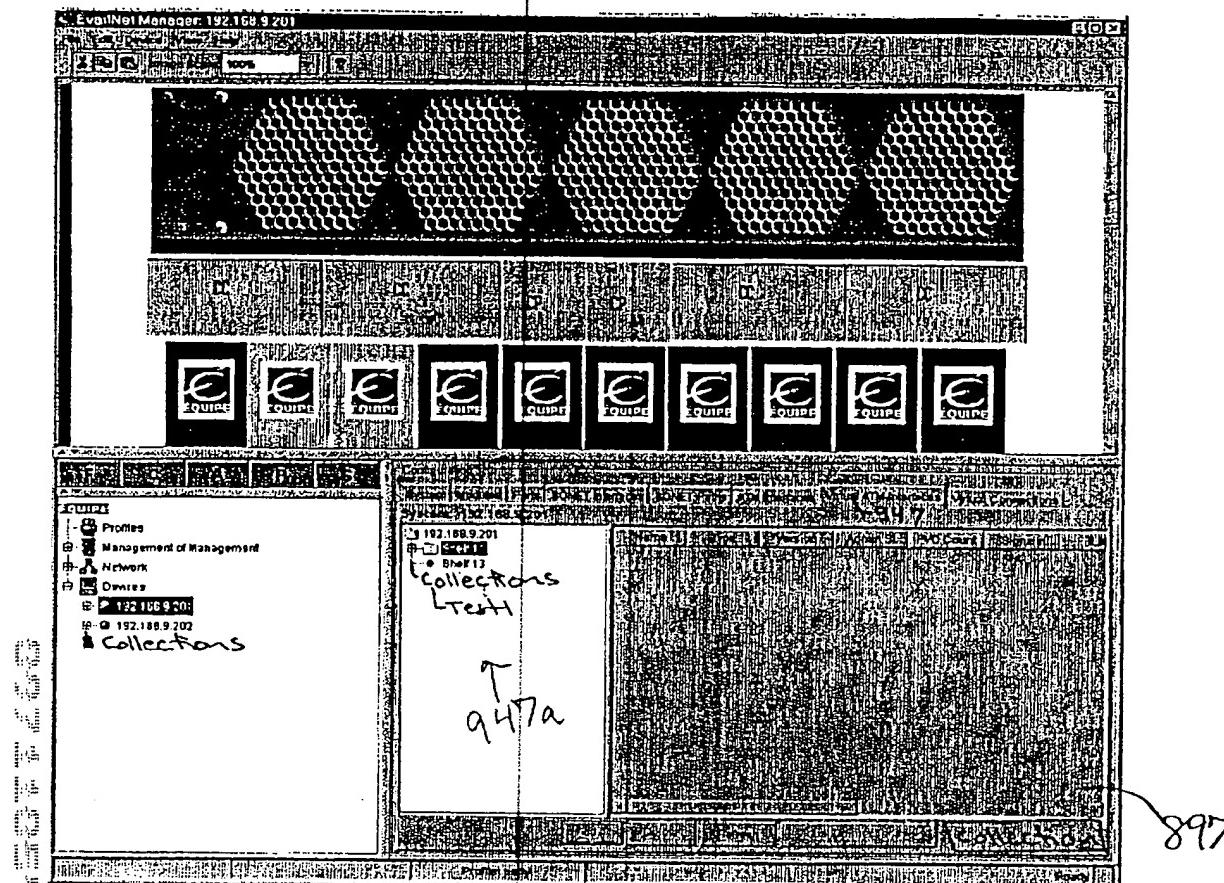


Fig.10c

895

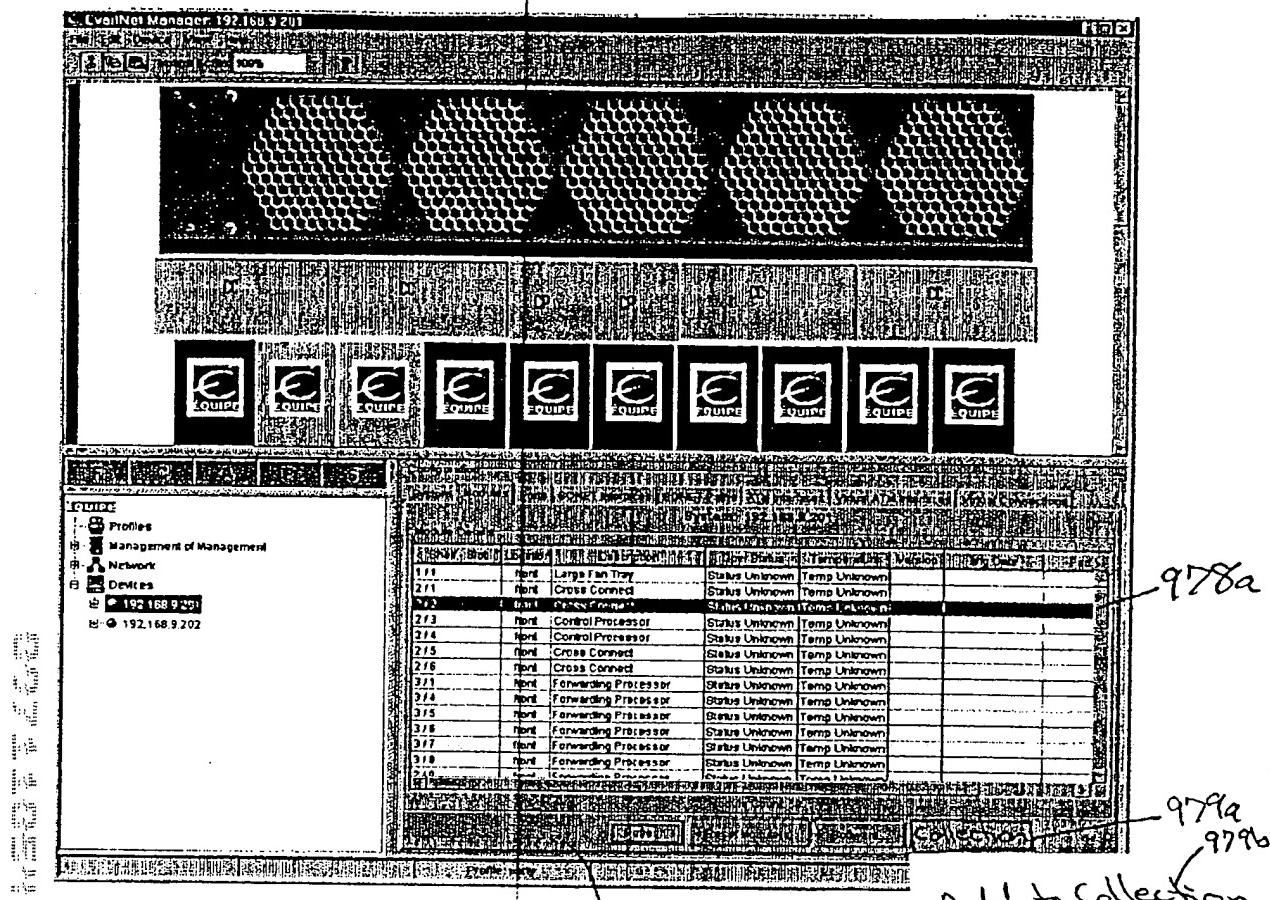


Fig. 10d

897

Add to Collection
New Collection

979c

979d

Collection Name:

OK

Fig. 10e

979e

Existing Collections:

- Test1
- New1
- Walmart
- Kmart

OK

Fig. 10f

979f

979g

↙895

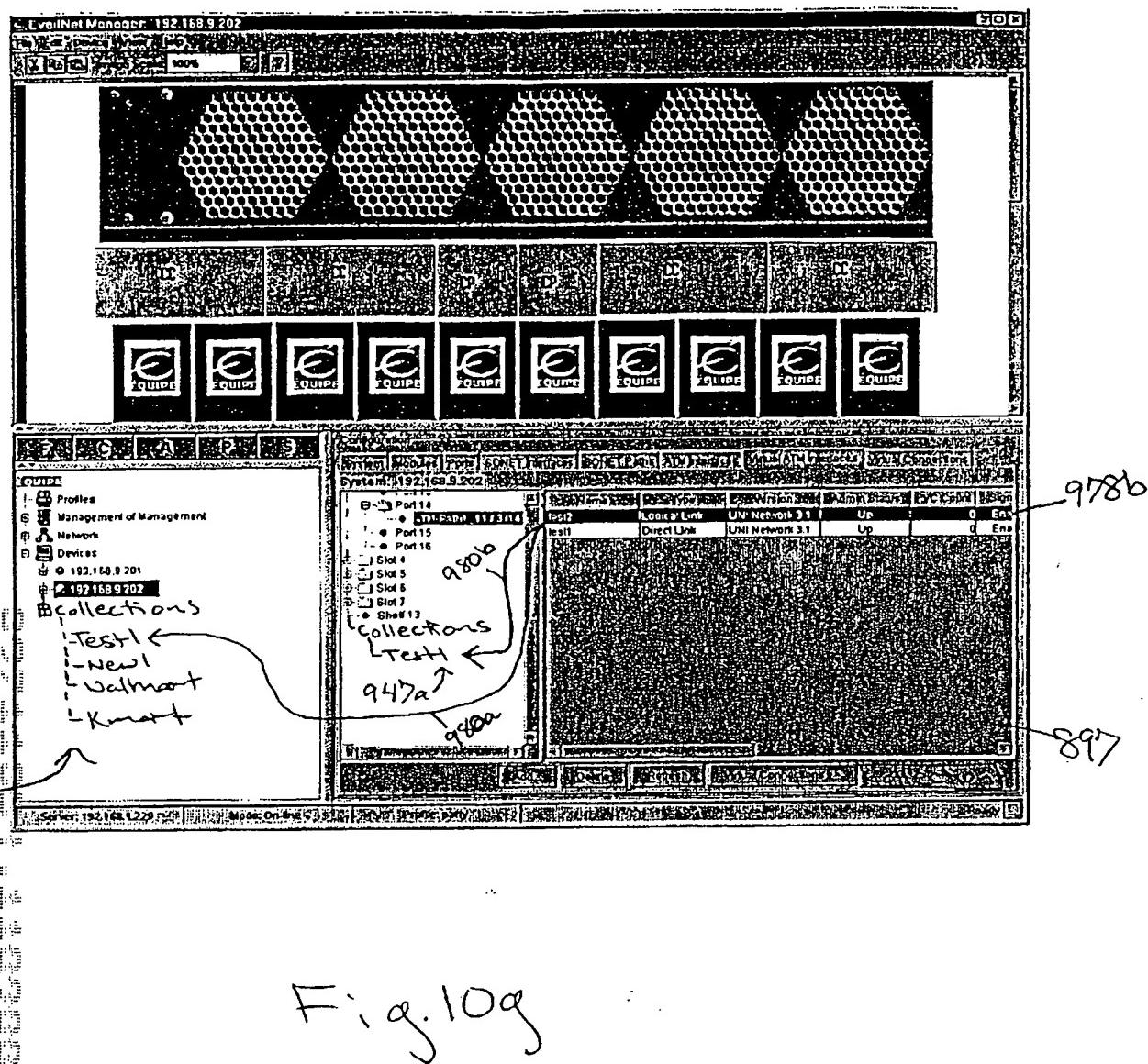


Fig. 10g

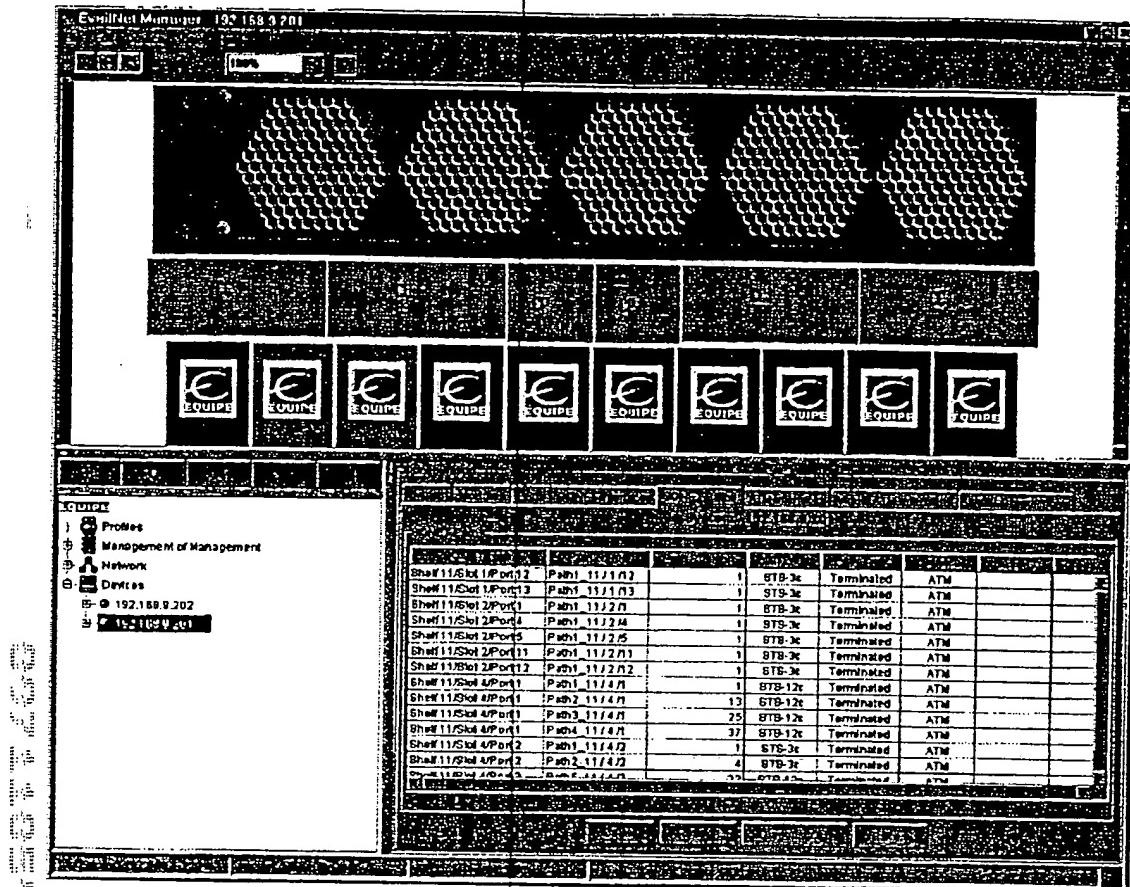
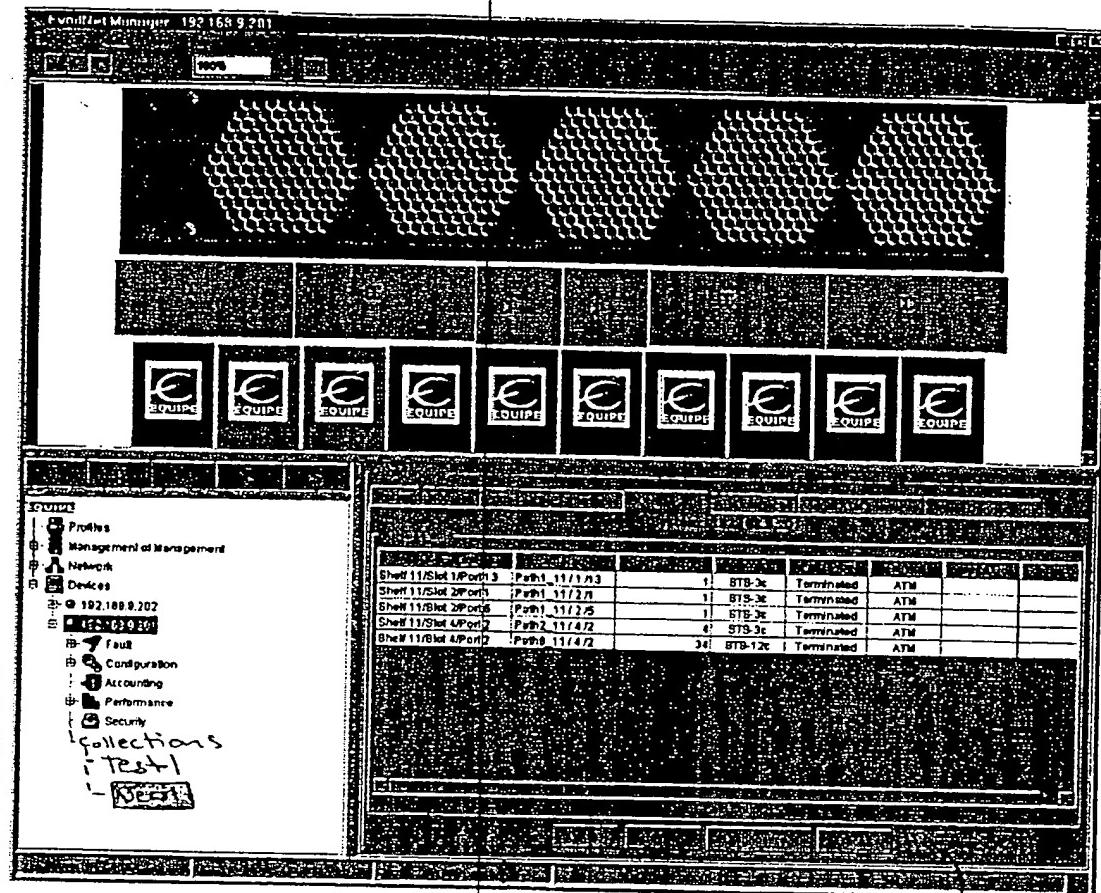


Fig. 10h



982

Fig. 10i

Name	Description	Security	Timeout	Primary Server	Secondary Server
Joe	Joe Whitehouse	Admin	15	192.168.1.32	192.168.1.37
Wayne	Wayne Arena	Provisioner	15	TeamServer1:192.168... TeamServer2:192.168.1.32	

Fig. 11a

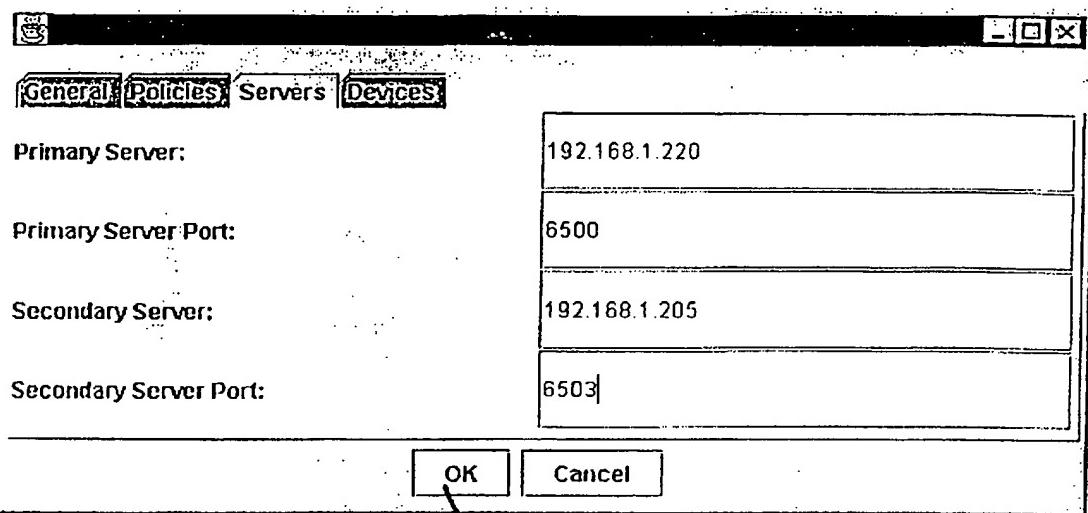
907

General																																							
Username:	Kevin	908a																																					
Description:	Kevin Snow user account	908e																																					
Group Name:	Equipe	908f																																					
Group Level Access:		908d																																					
Password:	*****	908b																																					
Confirm Password:	*****	908c																																					
Policies																																							
<input checked="" type="checkbox"/> User Cannot Change Password																																							
<input type="checkbox"/> Account Disabled																																							
<input checked="" type="checkbox"/> User Can Add Devices																																							
User Session Timeout: 15 Minutes		908k																																					
Servers																																							
Primary Server:	192.168.1.220	908l																																					
Primary Server Port:	6500	908n																																					
Secondary Server:	192.168.1.221	908m																																					
Secondary Server Port:	6503	908o																																					
Devices																																							
<table border="1"> <thead> <tr> <th>Device</th> <th>READ</th> <th>READ/WRITE</th> <th>Retry</th> <th>Timeout</th> <th>Add</th> <th>Delete</th> </tr> </thead> <tbody> <tr> <td>192.168.9.202</td> <td>public</td> <td>equipe</td> <td>3</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td>192.168.9.205</td> <td>public</td> <td>equipe</td> <td>3</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td>192.168.9.216</td> <td>public</td> <td>equipe</td> <td>3</td> <td>5</td> <td></td> <td></td> </tr> <tr> <td>192.168.9.217</td> <td>public</td> <td>equipe</td> <td>3</td> <td>5</td> <td></td> <td></td> </tr> </tbody> </table>					Device	READ	READ/WRITE	Retry	Timeout	Add	Delete	192.168.9.202	public	equipe	3	5			192.168.9.205	public	equipe	3	5			192.168.9.216	public	equipe	3	5			192.168.9.217	public	equipe	3	5		
Device	READ	READ/WRITE	Retry	Timeout	Add	Delete																																	
192.168.9.202	public	equipe	3	5																																			
192.168.9.205	public	equipe	3	5																																			
192.168.9.216	public	equipe	3	5																																			
192.168.9.217	public	equipe	3	5																																			
<input type="button" value="OK"/> <input type="button" value="Cancel"/>																																							

908t

Fig.11b

Fig. 11c



A screenshot of a window showing a table of device configurations. The table has columns: Device, READ, READ/WRITE, Retry, Timeout, and Trap Port. There are three rows of data:

Device	READ	READ/WRITE	Retry	Timeout	Trap Port
192.168.9.202	public	equipe	3	5	162
192.168.9.205	public	equipe	3	5	162
192.168.9.216	public	equipe	3	5	5012

To the right of the table are two buttons: **Add** and **Delete**. At the bottom right are two buttons: **OK** and **Cancel**. A handwritten note "9084" is written above the OK button.

Fig. 11d

Fig.11e

General Policies Servers Devices

Username: Kevin

Description: Kevin Snow user account

Customer Name: Equipe

Group Level Access:

Password: *****

Confirm Password: *****

OK Cancel

908+

User Cannot Change Password

Account Disabled

User Can Add Devices

User Session Timeout: 15 Minutes

OK Cancel

908+

Fig.11f

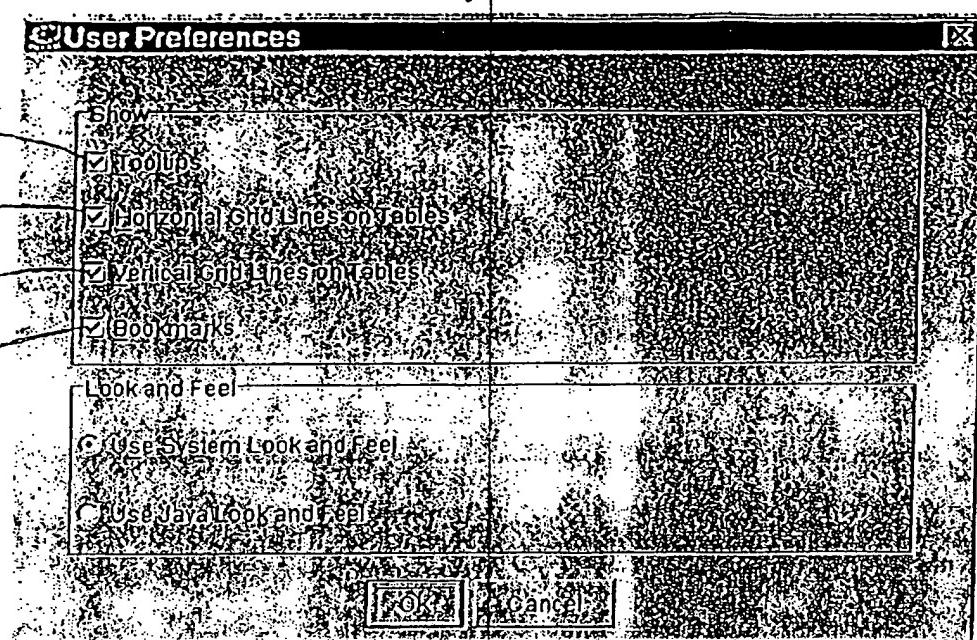


Fig. 11 g

907

General

Username:	Kevin	908a
Description:	Kevin Snow user account	908e
Group Name:	Equipe	908f
Group Level Access:		908d
Password:	*****	908b
Confirm Password:	*****	908c

Policies

<input checked="" type="checkbox"/> User Cannot Change Password	908m
<input type="checkbox"/> Account Disabled	908i
<input checked="" type="checkbox"/> User Can Add Devices	908j
User Session Timeout: 15 Minutes	908k

Servers

Primary Server:	192.168.1.220	908l
Primary Server Port:	6500	908n
Secondary Server:	192.168.1.221	908m
Secondary Server Port:	6503	908o

Devices

Device	READ	READ/WRITE	Rely	Timeout	Add	Delete
192.168.9.202	public	equipe	3	5		

Group List

Group
Walmart - East
Walmart - West
Kmart 1
sears-northeast

Fig. 11h

908g

1000a

1000

Fig. IIi

1002

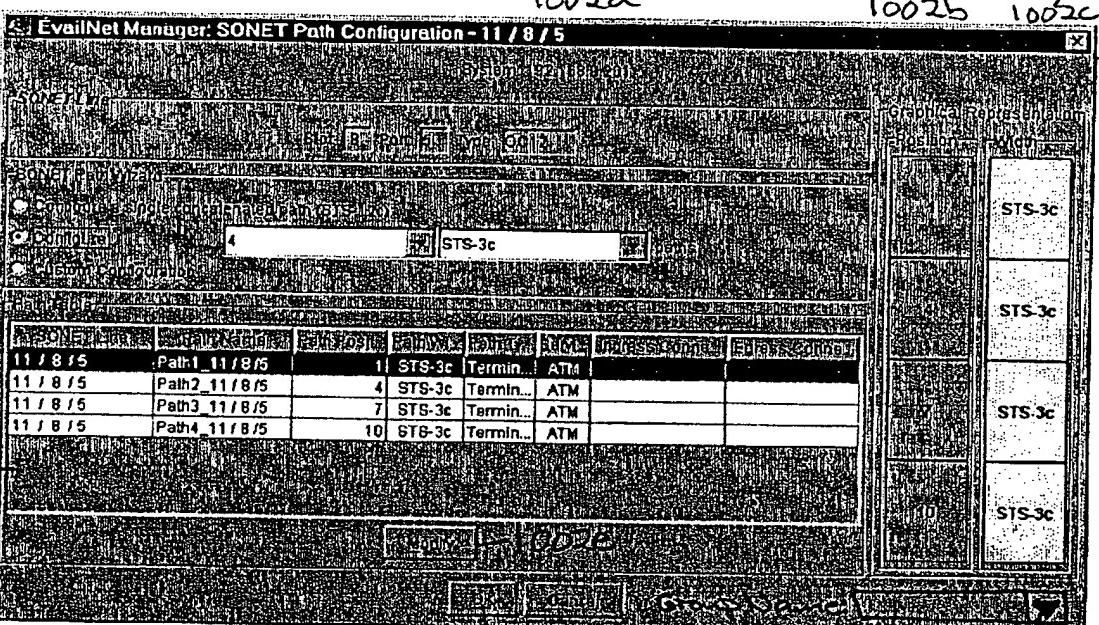
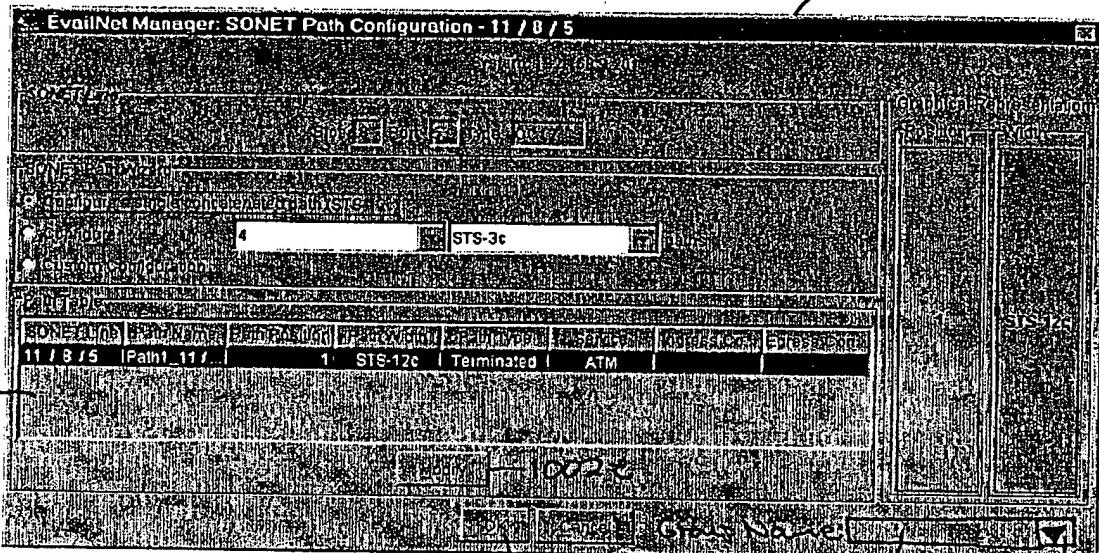


Fig. IIj

Fig. 11K

1002

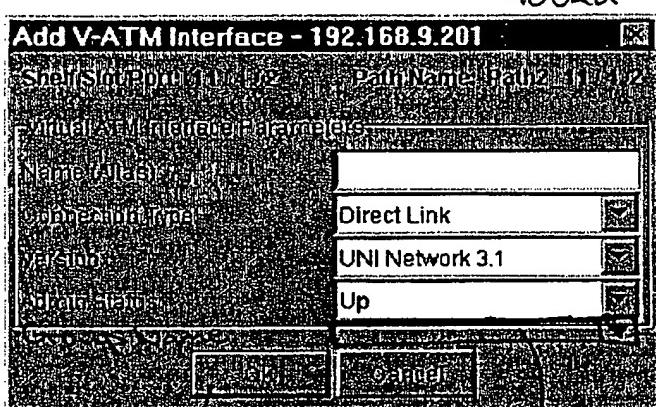
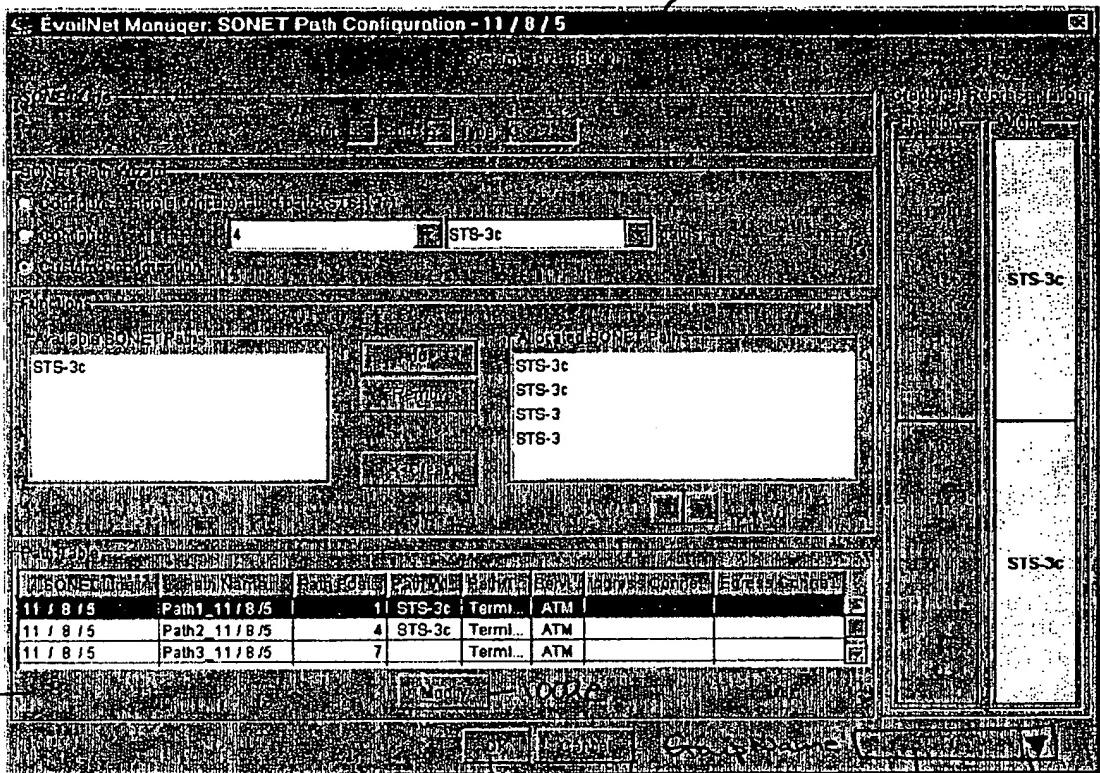


Fig. 11n

Fig. 11L

Managed Resource Group Table

LID	Managed Device PID	Group Name
1145	1	Walmart-East
⋮	⋮	⋮
⋮	⋮	⋮

1008a → LID
1008b → Managed Device PID
1008c → Group Name
1008d → Row Labels (⋮)

1008 → Column Labels (LID, Managed Device PID, Group Name)

Fig. 11M

Managed Resource Table

LID	Resource LID	Manage Resource Group LID
4443	901	1145
⋮	⋮	⋮

1007a → LID
1007b → Resource LID
1007c → Manage Resource Group LID

1007 → Column Labels (LID, Resource LID, Manage Resource Group LID)

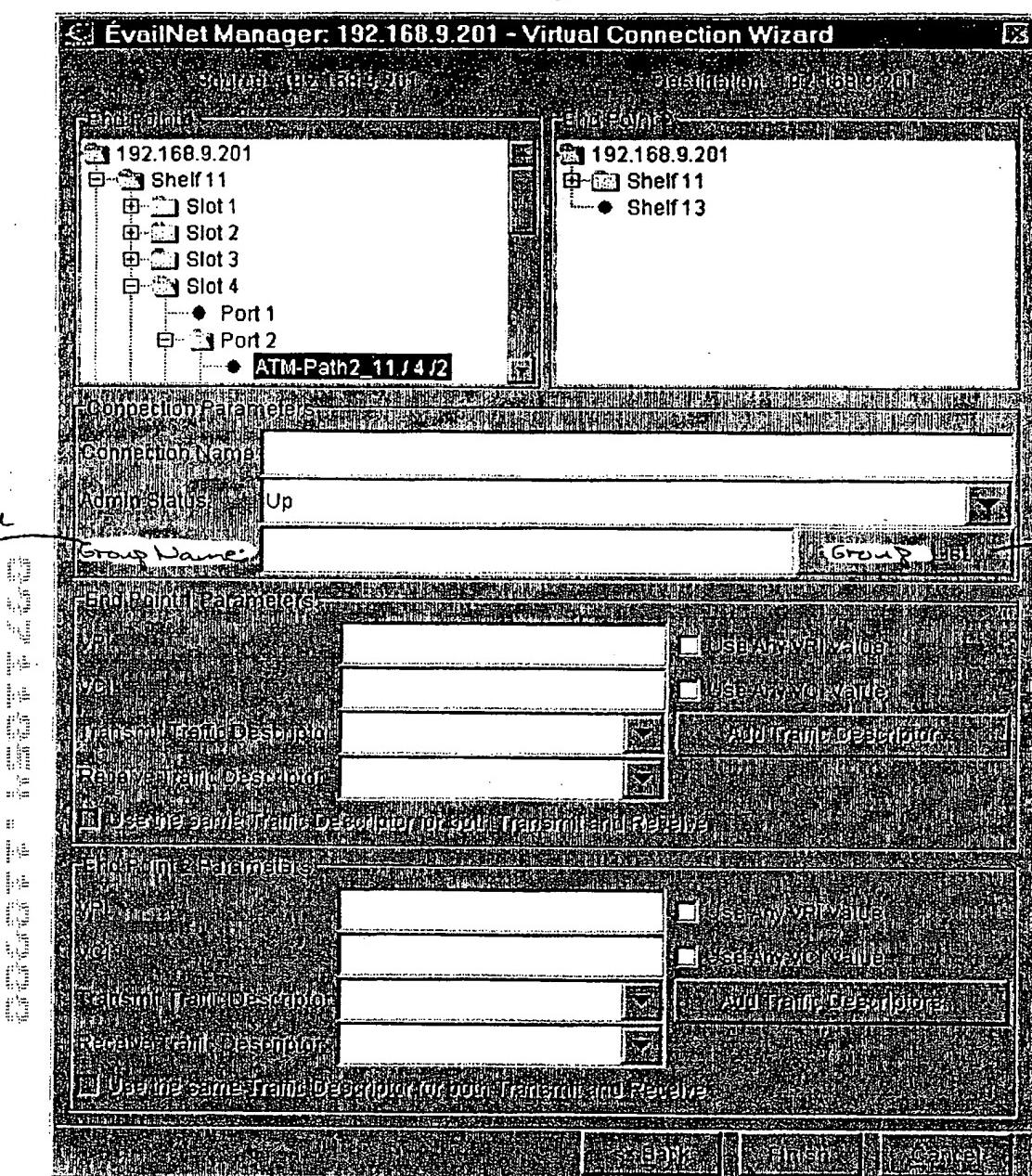


Fig. 110

Fig. 11p

User Table

LID	Username	Password	Group Level Access
2012	Dave	Marble	Provisioner
⋮	⋮	⋮	⋮

1010

1010a

1010b

1010c

1010d

1010e

Fig. 11q

User Managed Device Table

LID	User LID	Host LID	Retry	Timeout
7892	2012	9046		
⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮

1012

1012a

1012b

1012c

1012d

1012e

Fig. 11r

Administration Managed Device Table

1014a

1014b 1014e

1014

1014d

LID	Host Address	Port Address	Retry	Timeout	Admin. Password	Prov. Password	Viewer Password
9046	192.168.9.202	1521			team 1	team 2	team 3
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

1014c

Fig. 11s

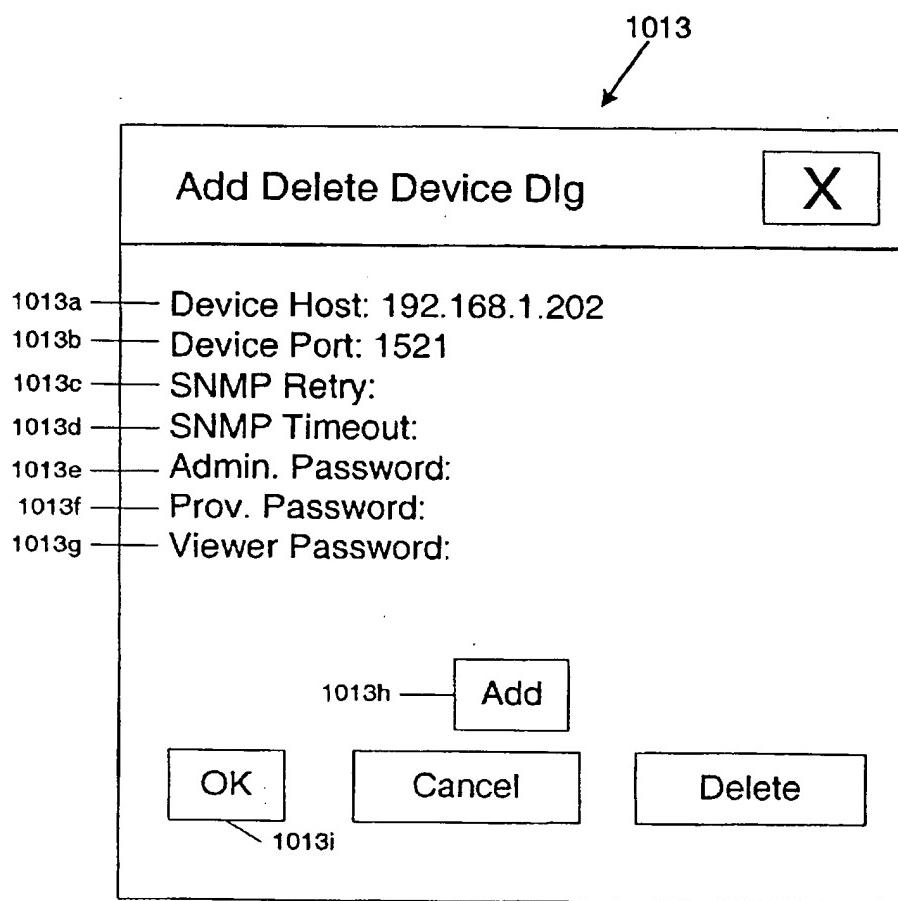


Fig. 11t

User Resource Group Map Table

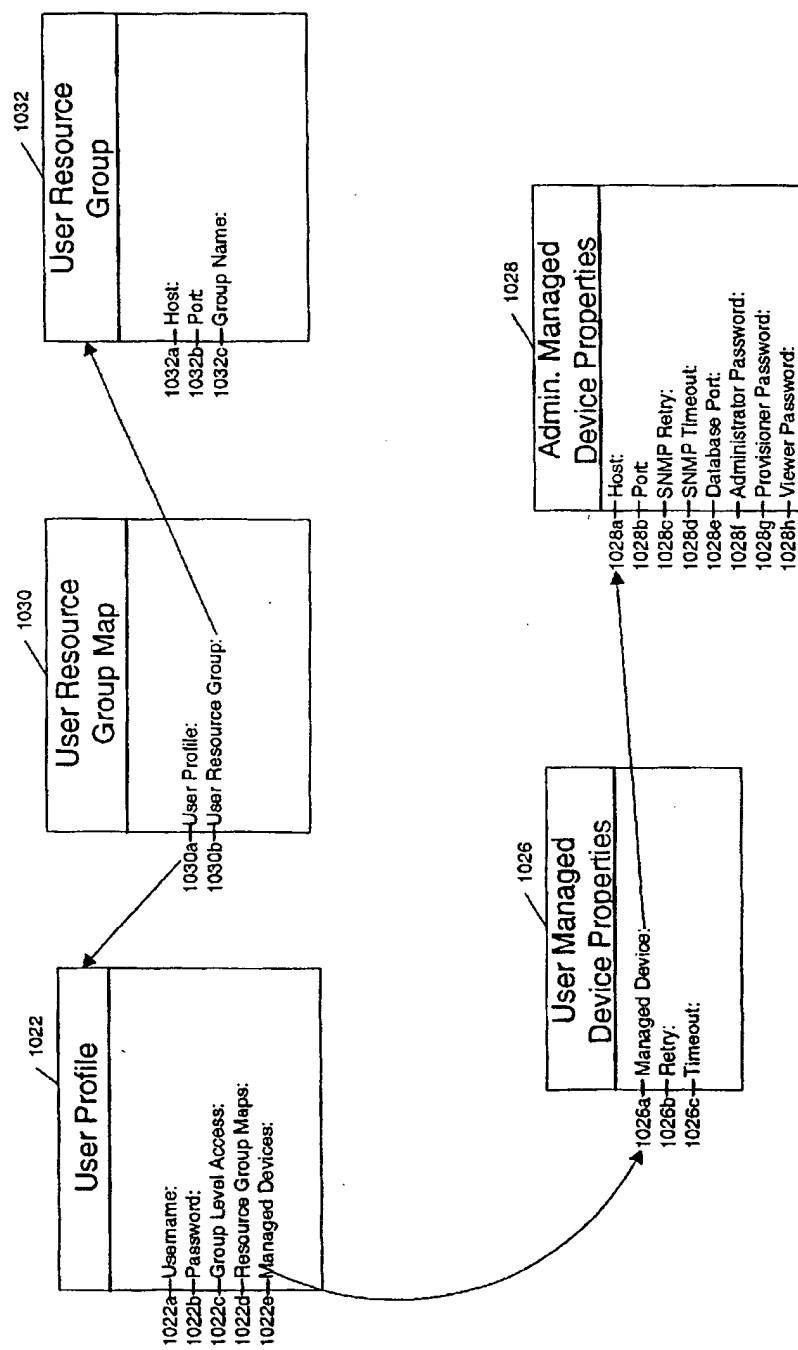
User Resource Group Map Table		
1016a	1016b	1016c
LID	User LID	User Resource Group LID
8086	2012	1024
⋮	⋮	⋮

Fig. 11u

User Resource Group Table

User Resource Group Table		
1018a	1018b	1018c
LID	Host LID	Group Name
1024	9046	Walmart-East
⋮	⋮	⋮

Fig. 11v



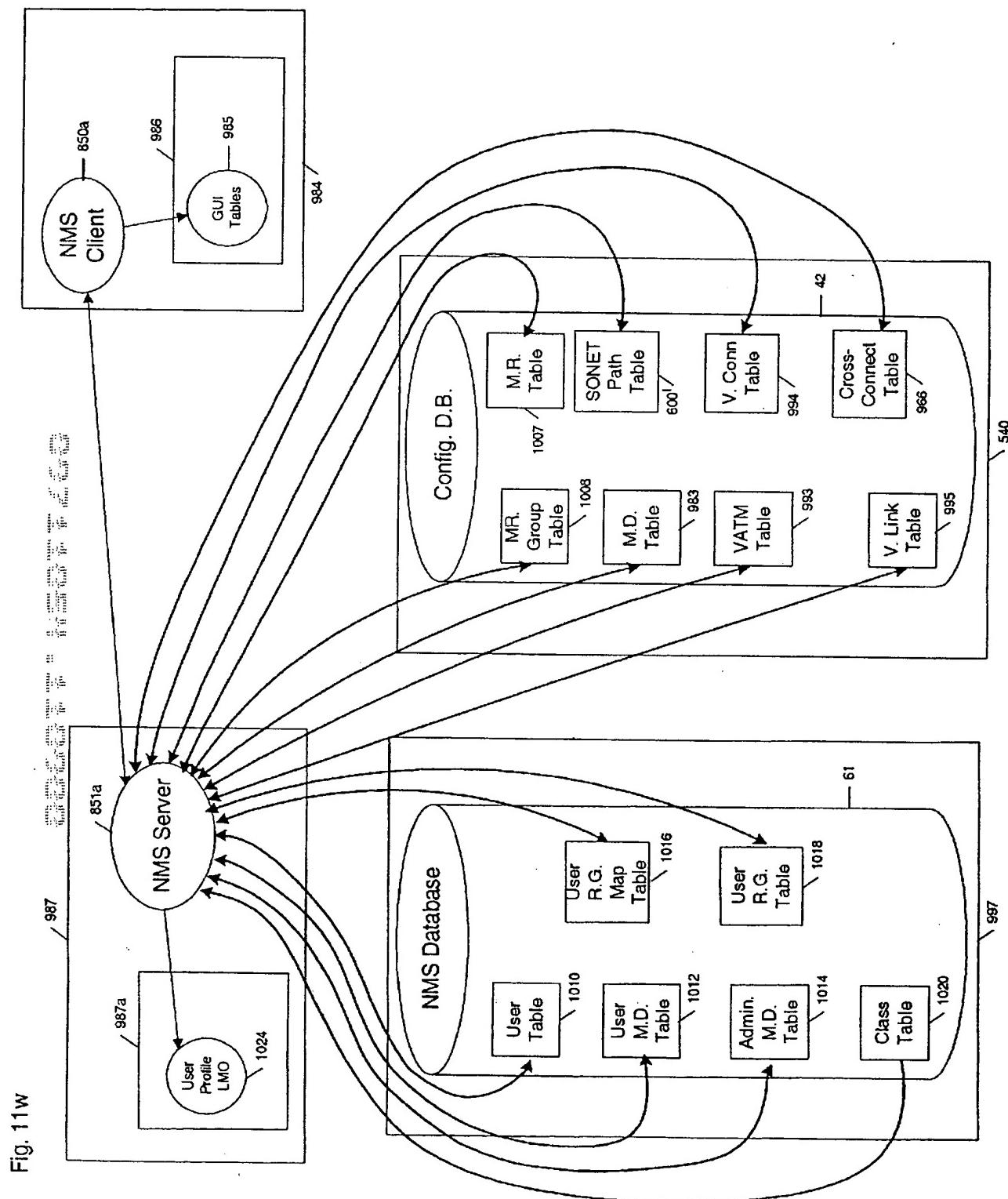


Fig. 11w

Fig. 11x

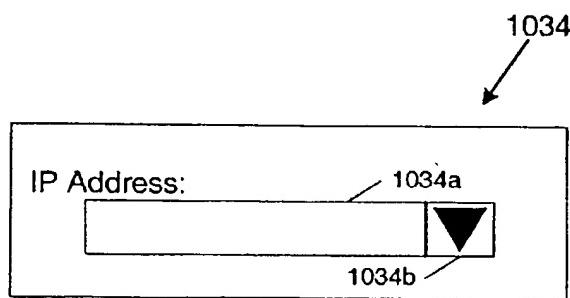
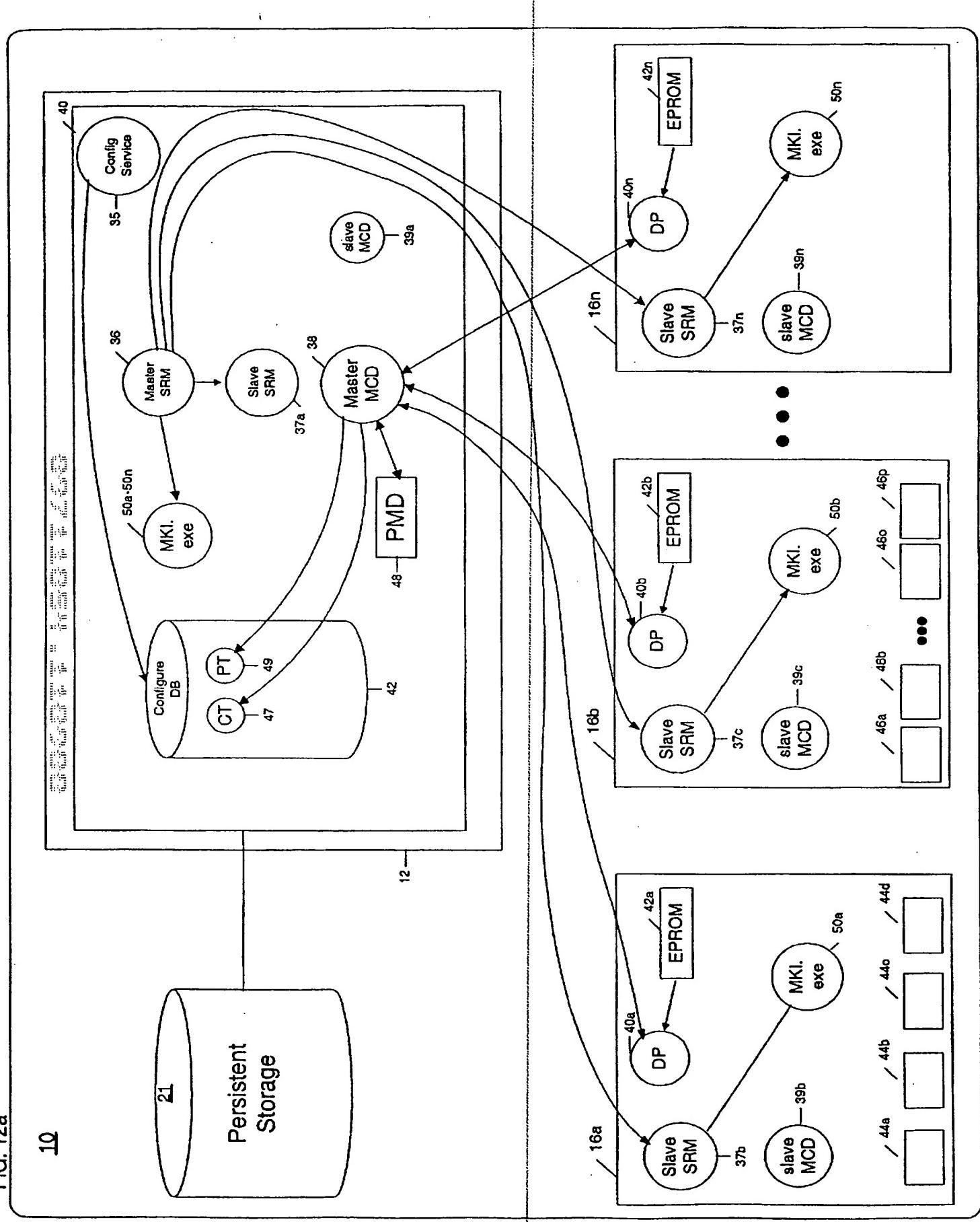


FIG. 12a



CARD TABLE

47

PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16 a— 500	0XF002	3	1	
16 b— 501	0XF002	4	2	
...

16 e— 505	0X6002	1	5	
...
16 n— 513	0XF002	1	12	
...

FIG. 12b

PORT TABLE

49

PID	PORT TYPE	VERSION NO.	SLOT NO.	...
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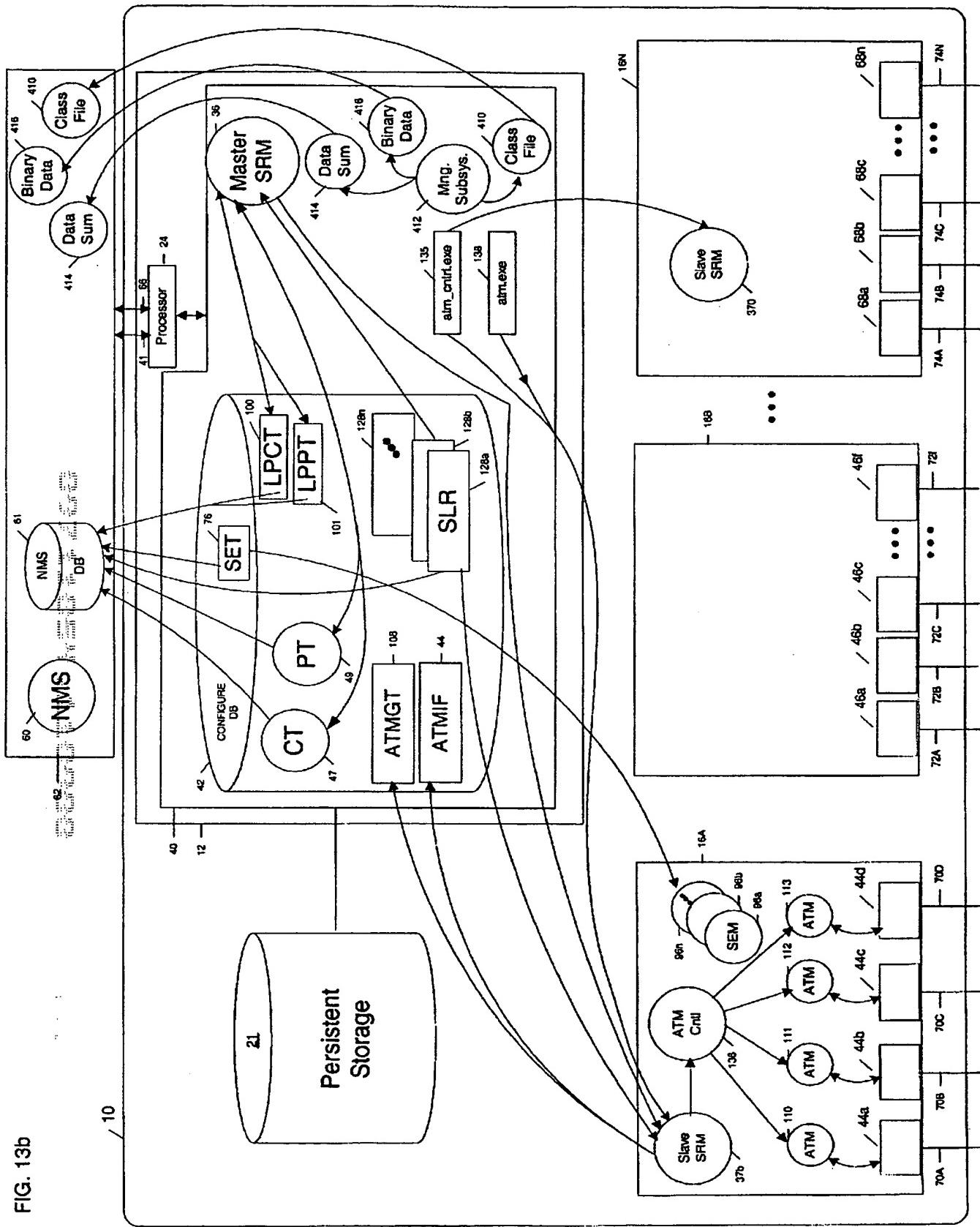
44a	1500	00620	1	1
44b	1501	00620	1	1
44c	1502	00620	1	1
44d	1503	00620	1	1
44a	1504	00820
46a
	1600	00620	1	8
	
	

FIG. 12c

FIG. 13a

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16b
16n
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FIG. 13b



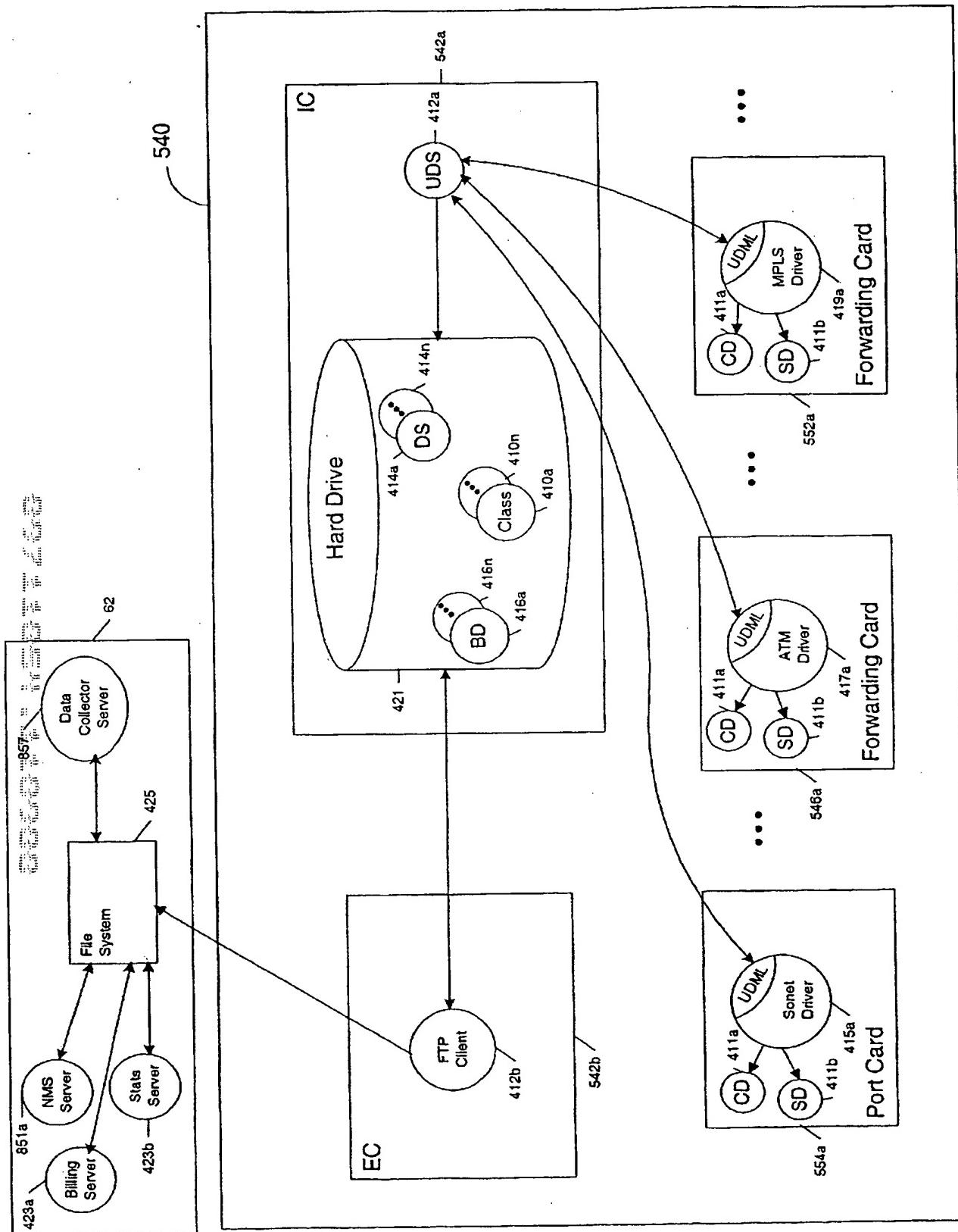


Fig. 13c

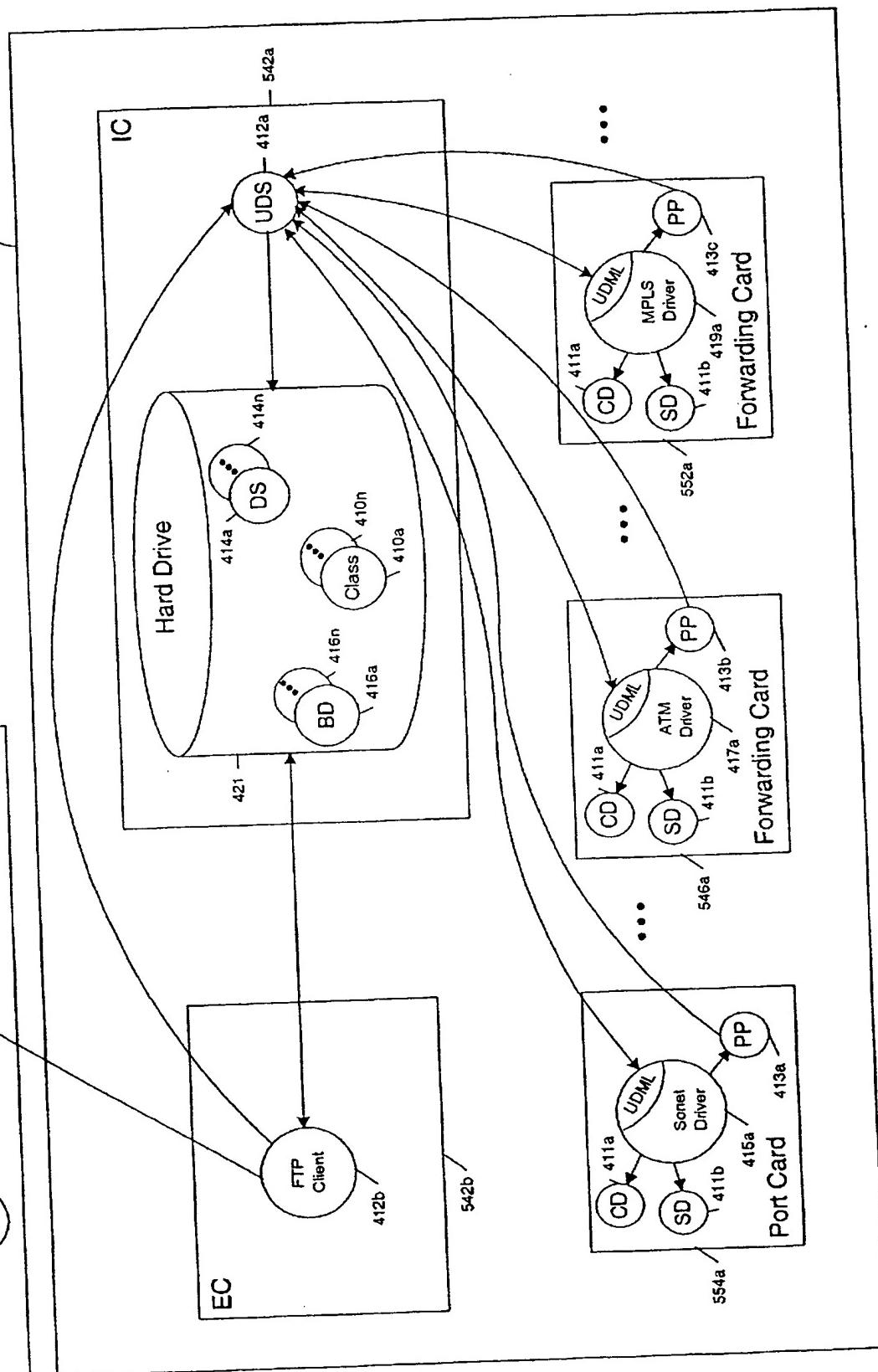
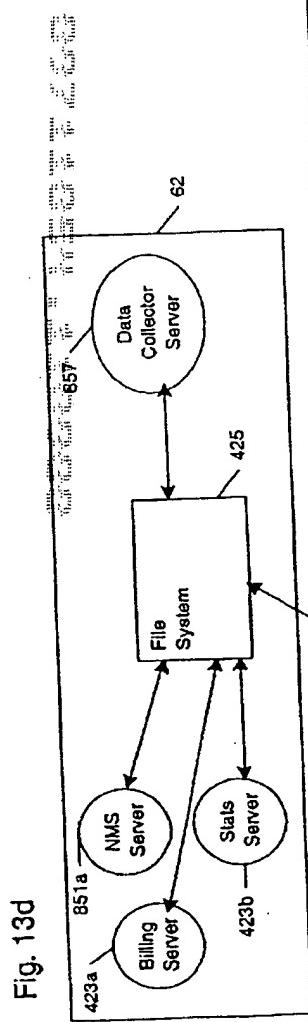


FIG. 14a

Service Endpoint Table 76

	Service Endpoint #	Port PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 14b

Logical to Physical Card Table 100

	98	102	104
	LID	Primary PID	Back-up PID
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 14c

Logical to Physical Port Table 101

	98	102	104
	LID	Primary PID	Back-up PID
107	40	1500	1600
	⋮	⋮	⋮

FIG. 14d

ATM Group Table 108

Group #	Card LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14e

ATM Interface Table 114

ATM IF	ATM Group	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
⋮	⋮	⋮	⋮
12	3	10	
⋮	⋮	⋮	⋮

FIG. 14f

Software Load Record 128a

130	Control Shim	LID	132
134	atm-cntl.exe	30	

FIG. 15

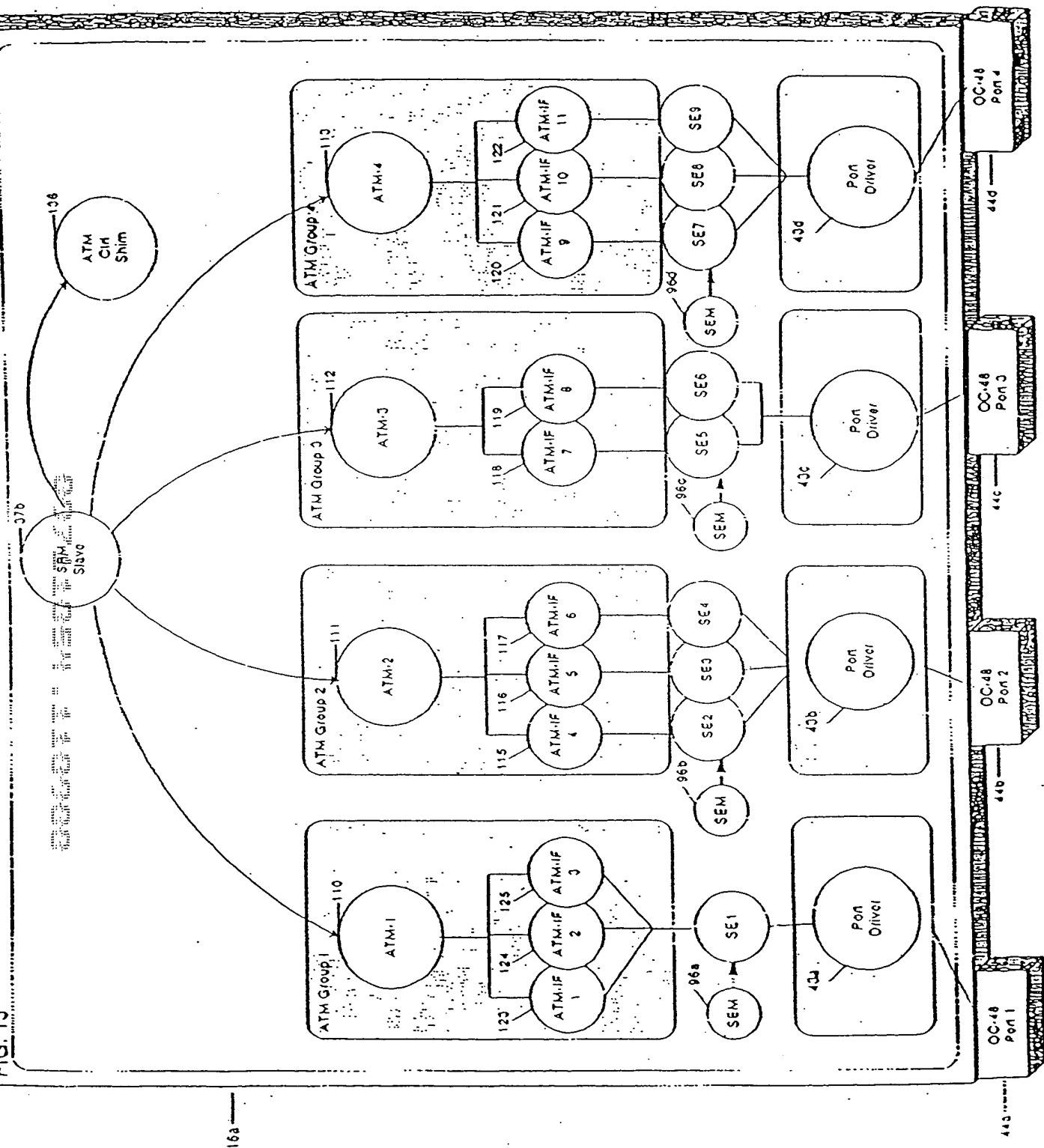


FIG. 16a

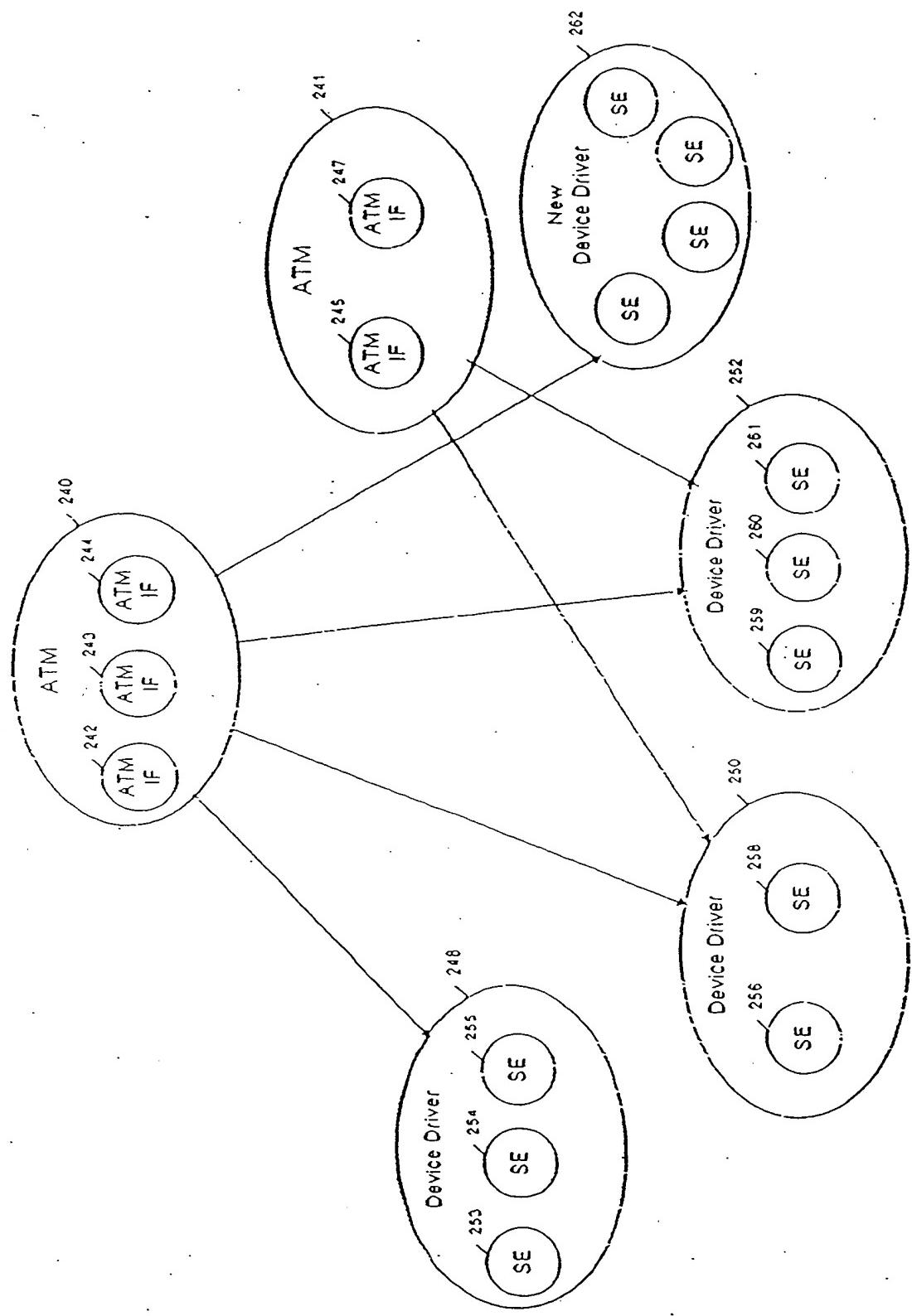
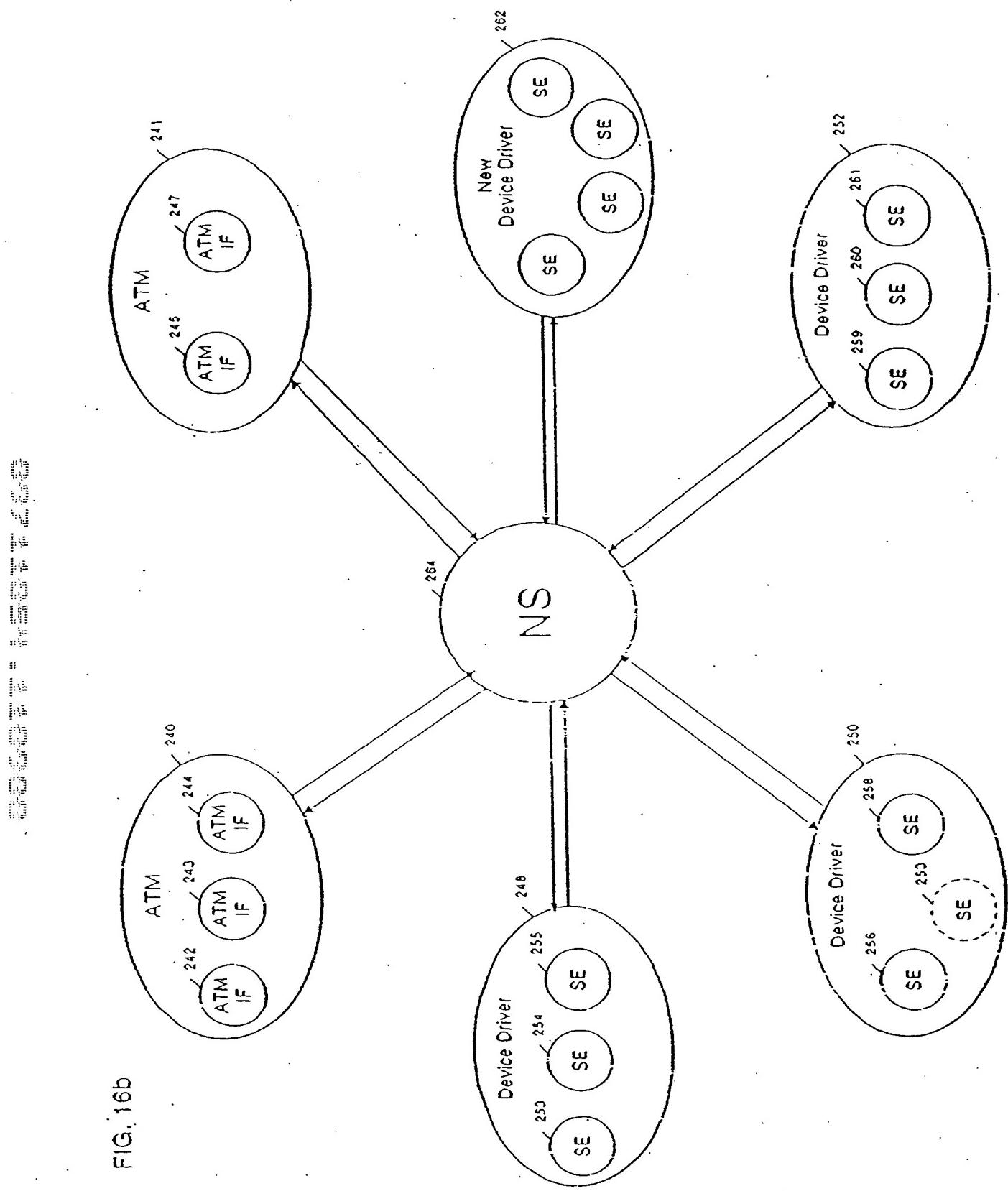


FIG. 16b



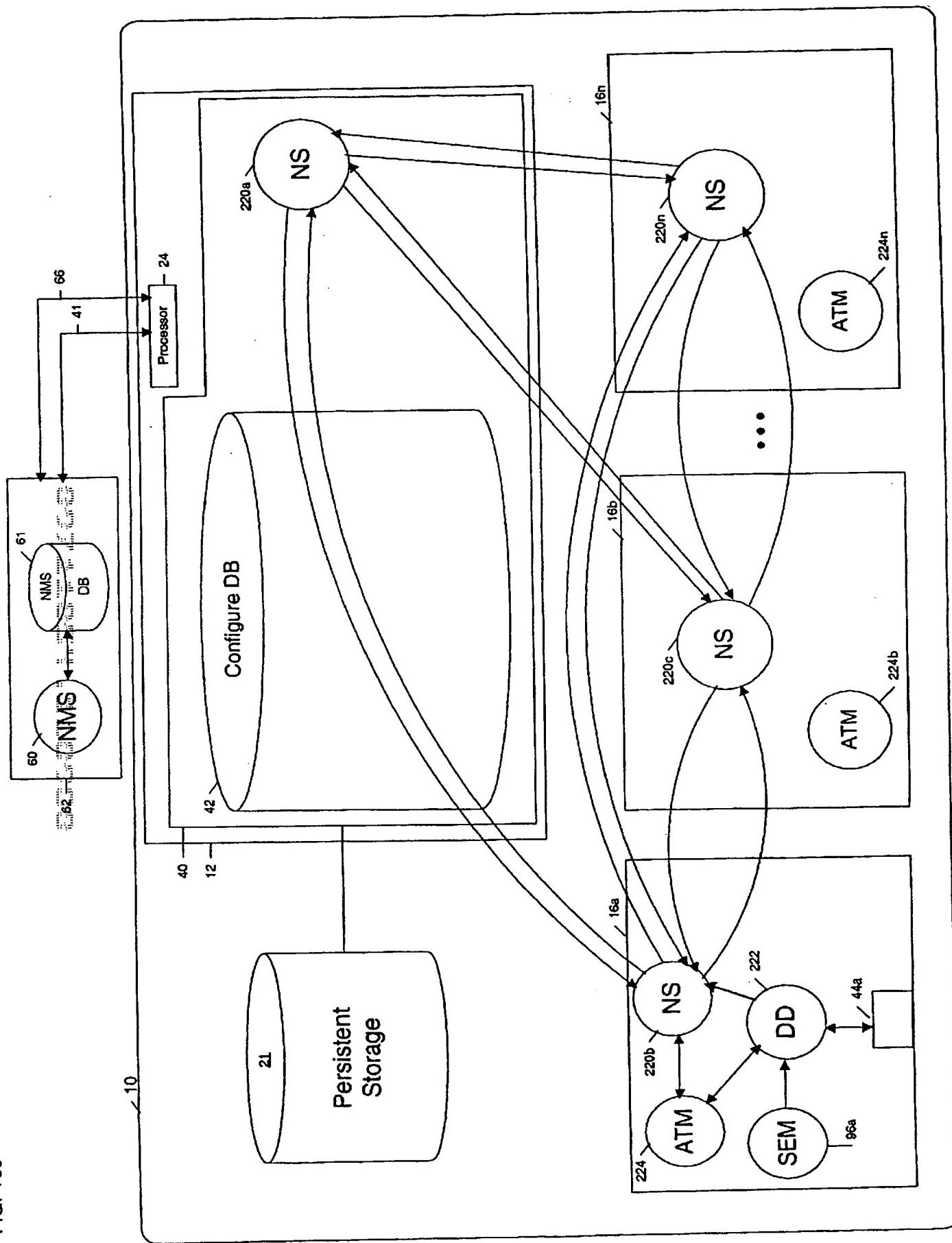
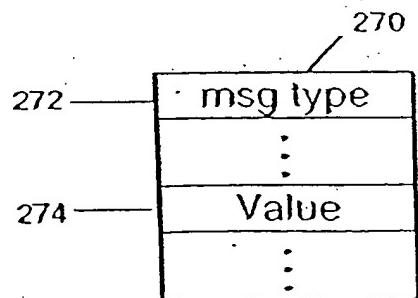
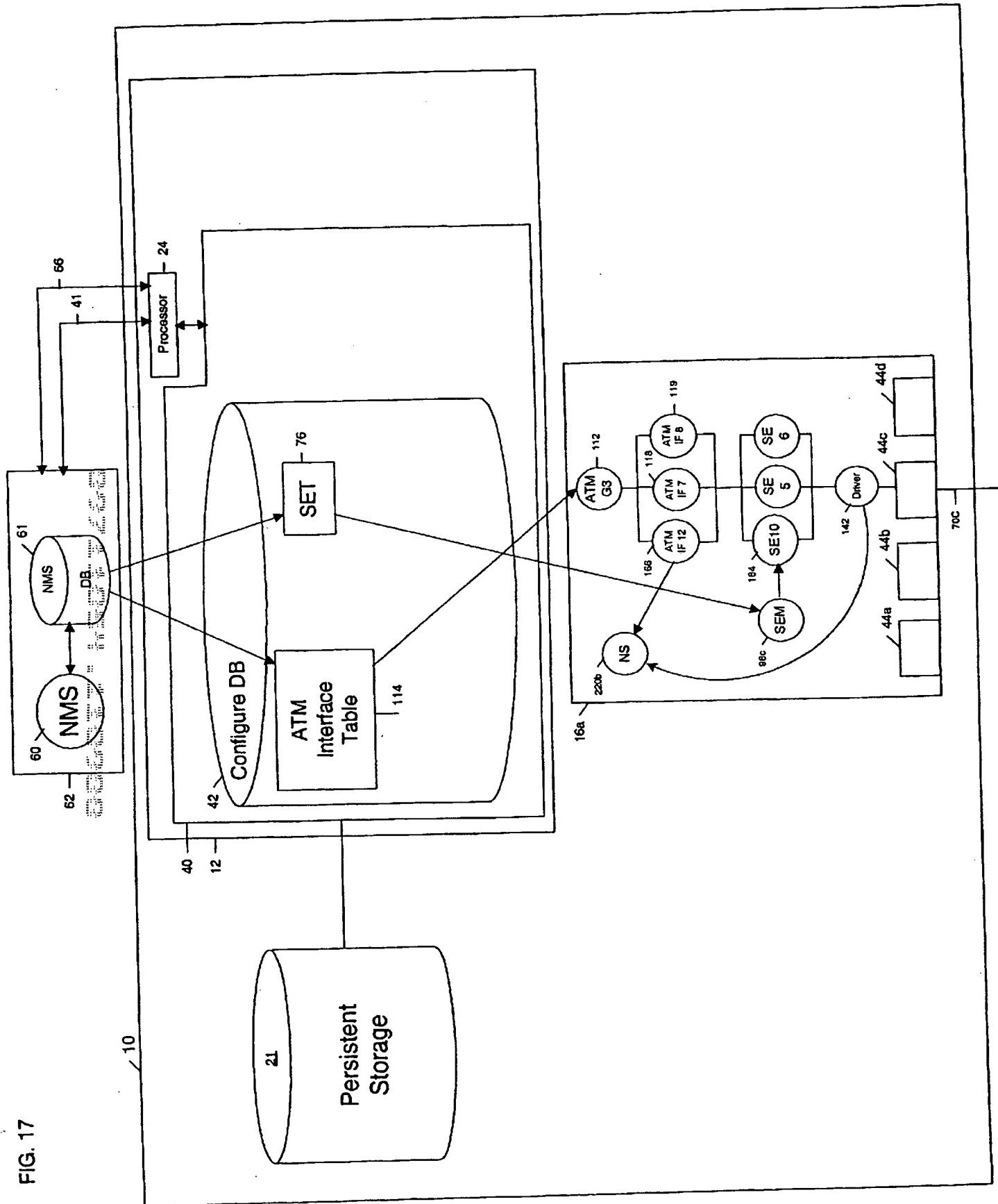


FIG. 16d





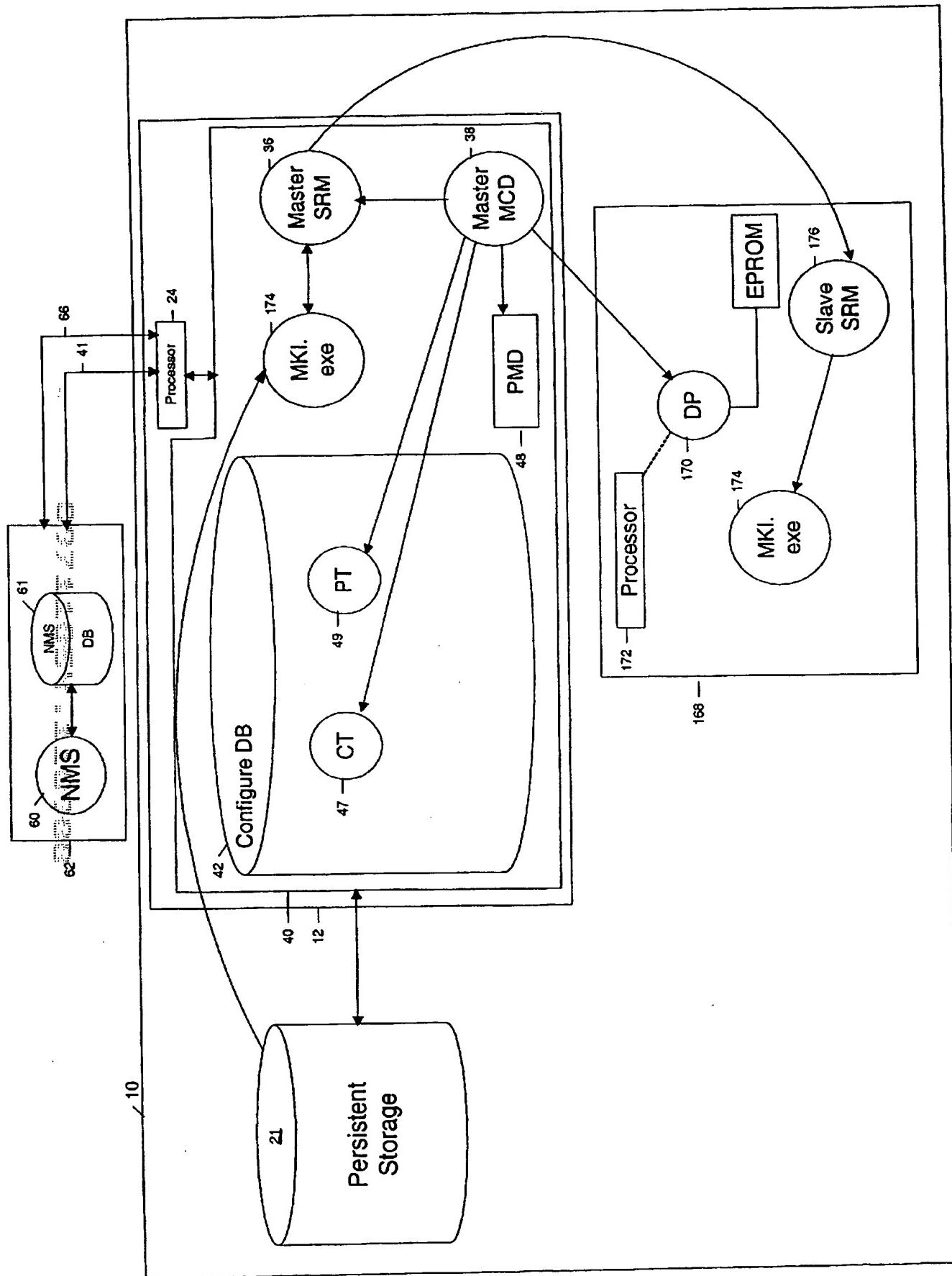


FIG. 18

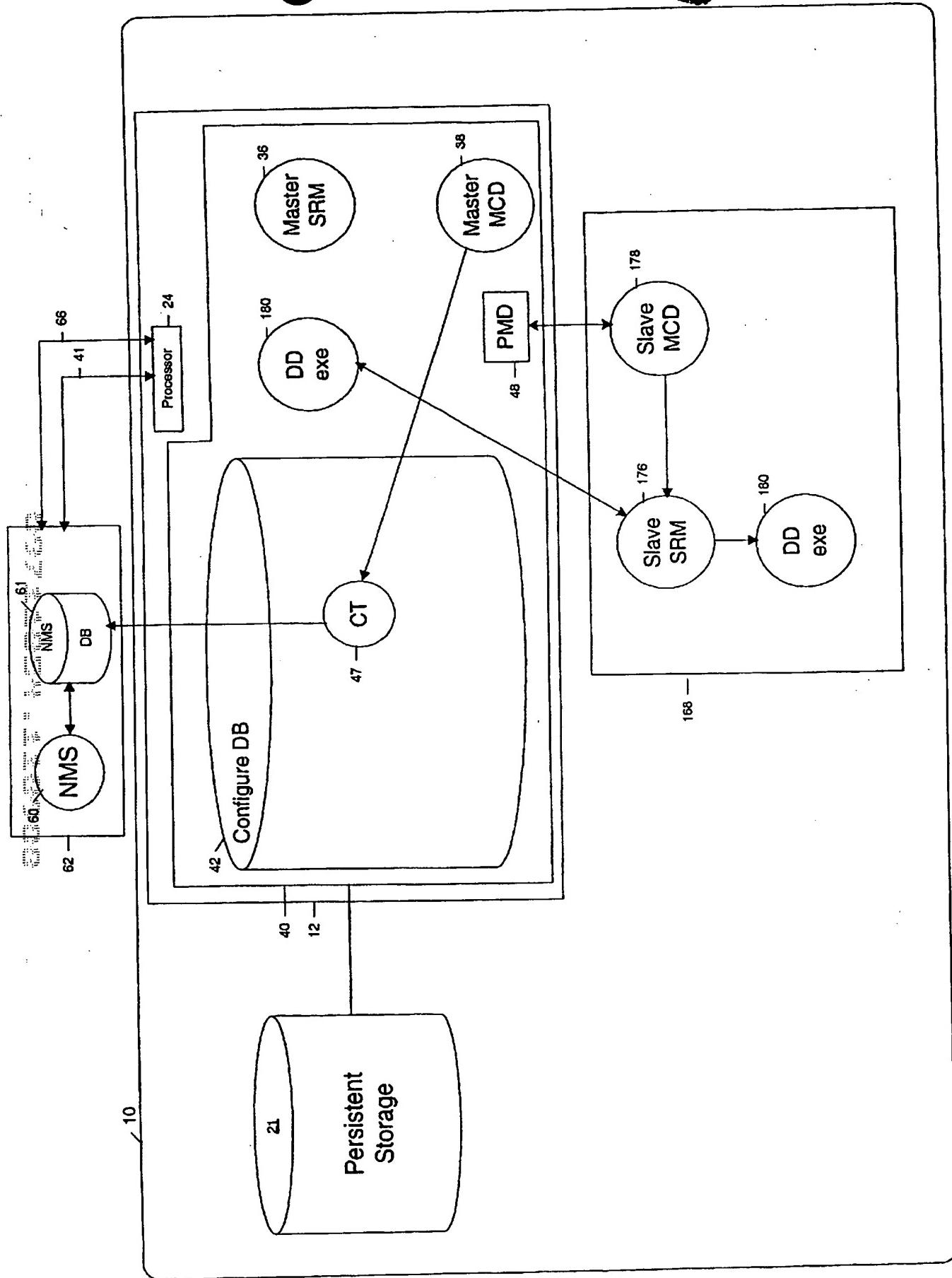


FIG. 19

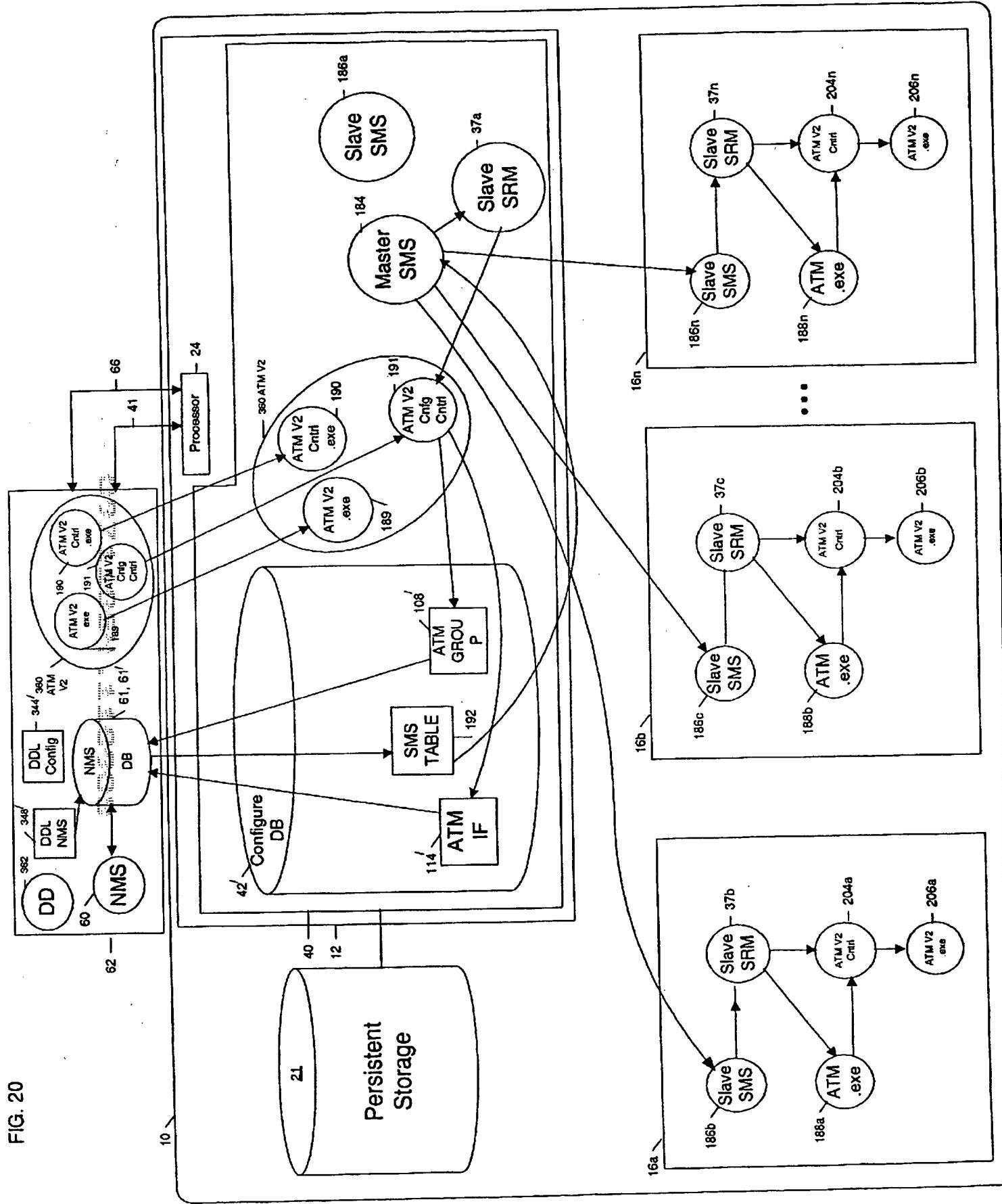


FIG. 21

194
196
198
200

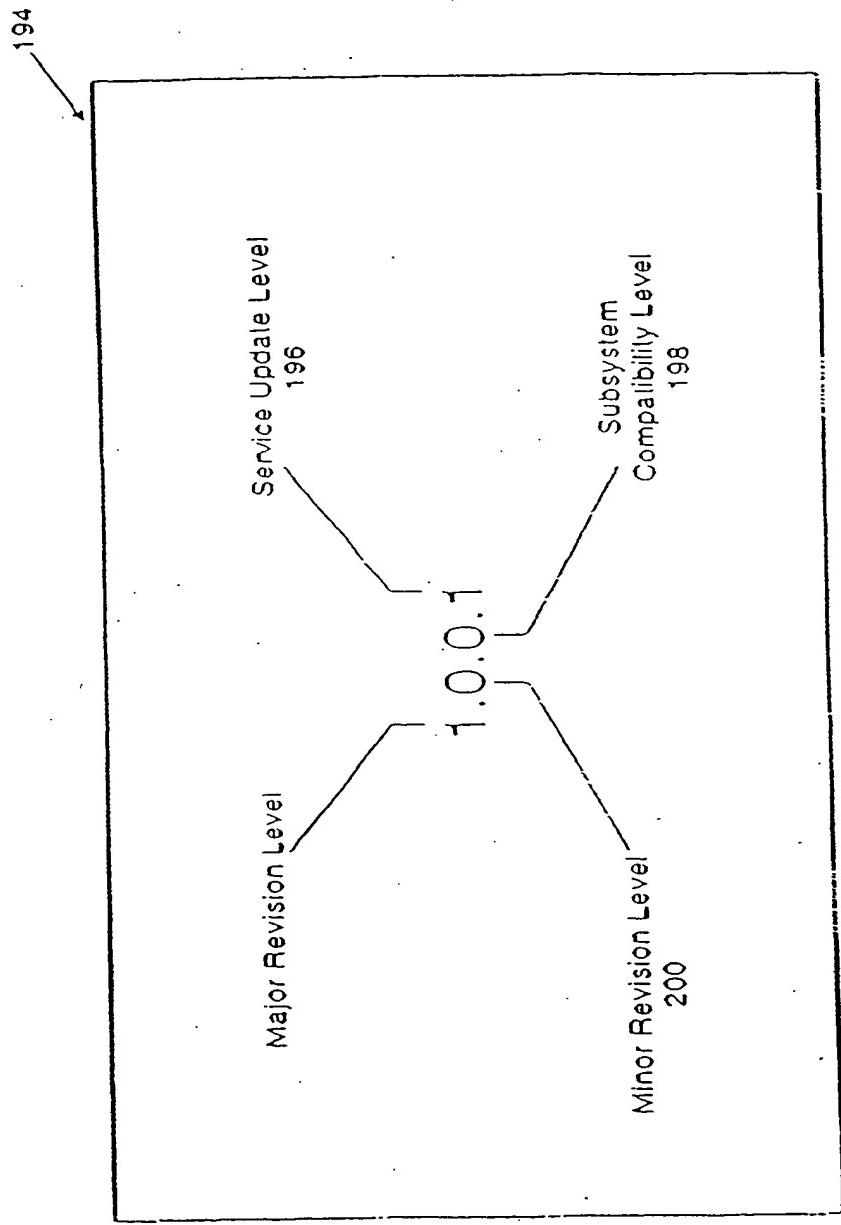
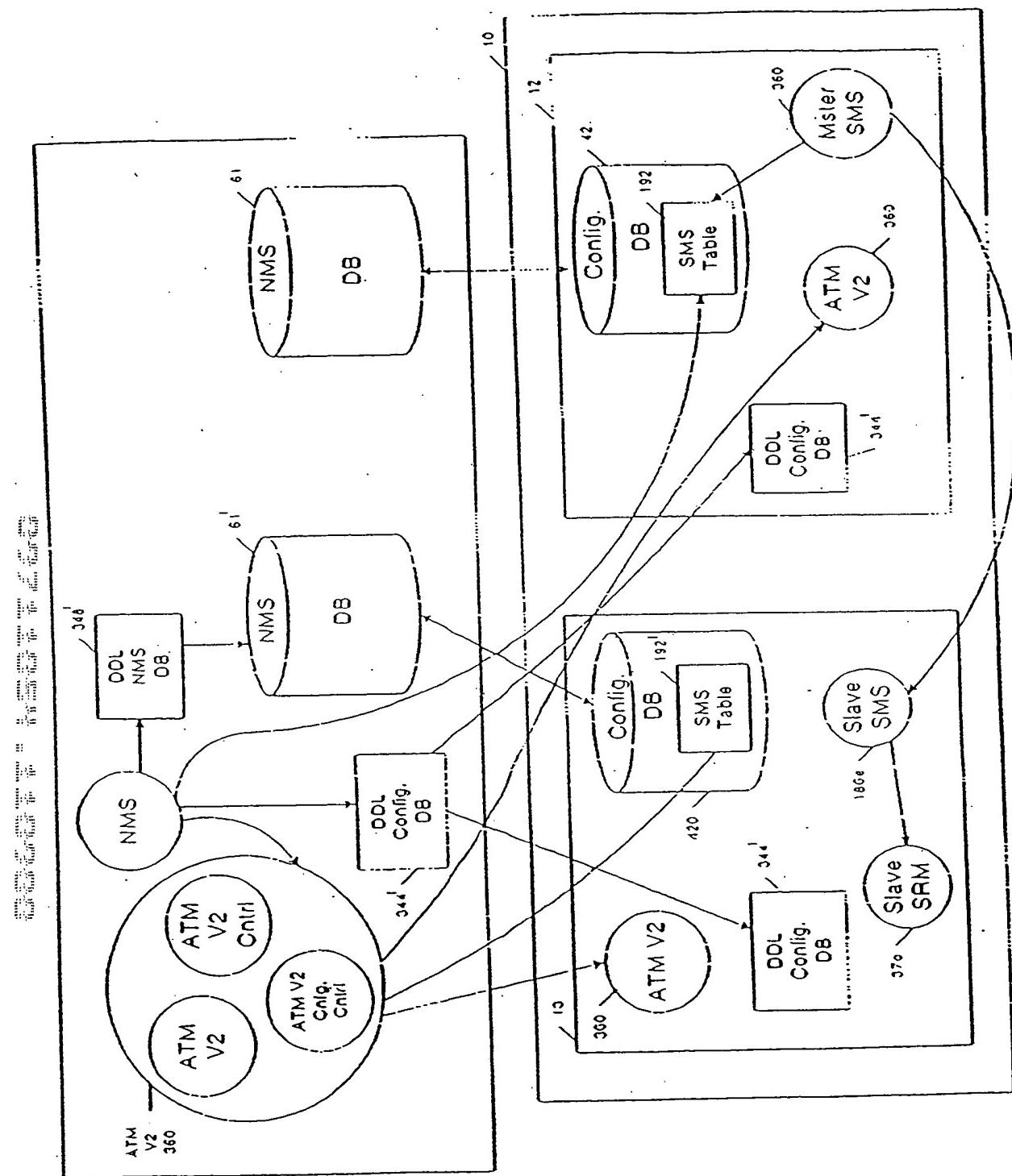


FIG. 22



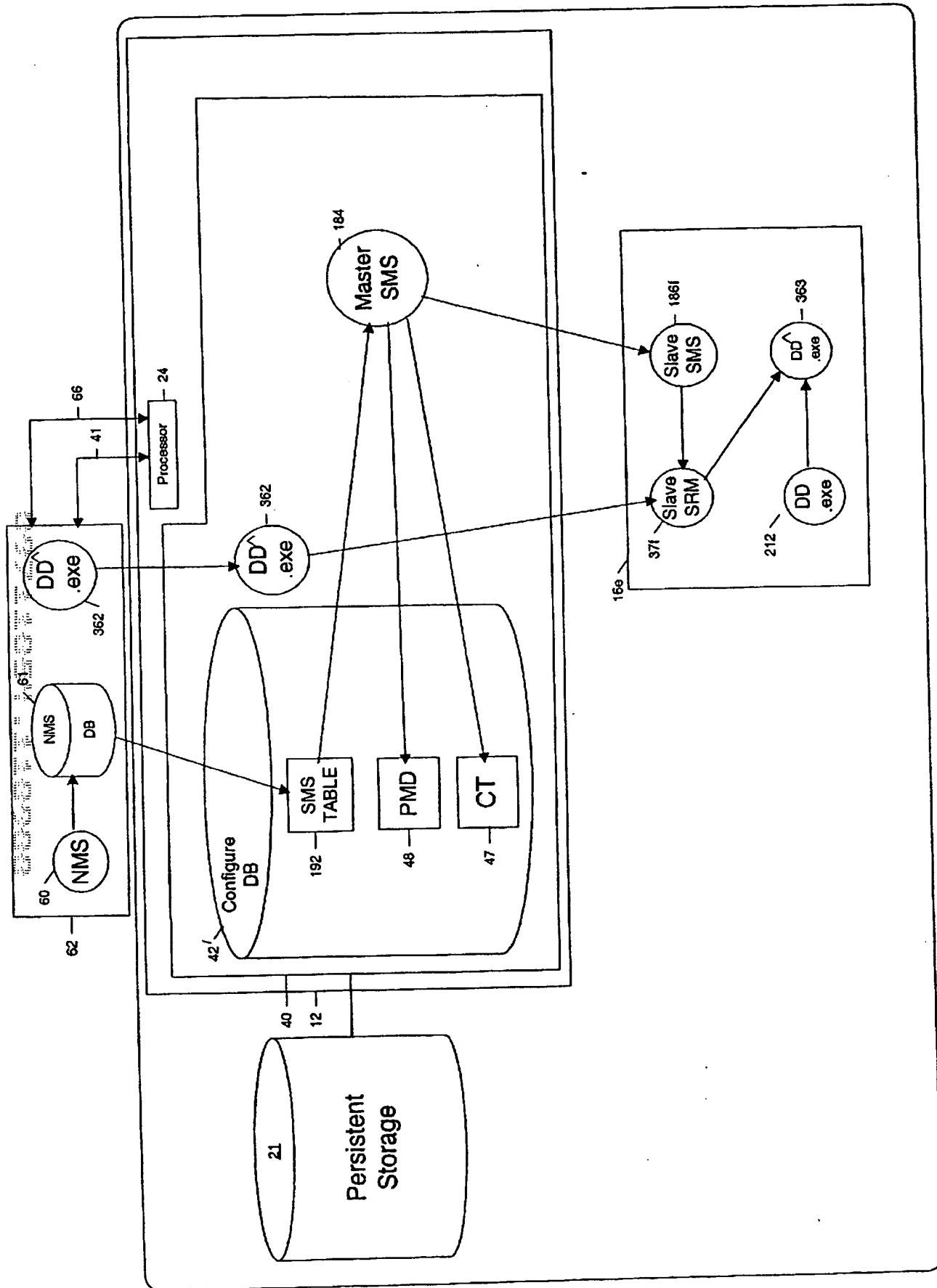


FIG. 23

FIG. 24

230 ATM app
232 ATM Driver
234a DD
234b DD
236 Local Backup
238c DD

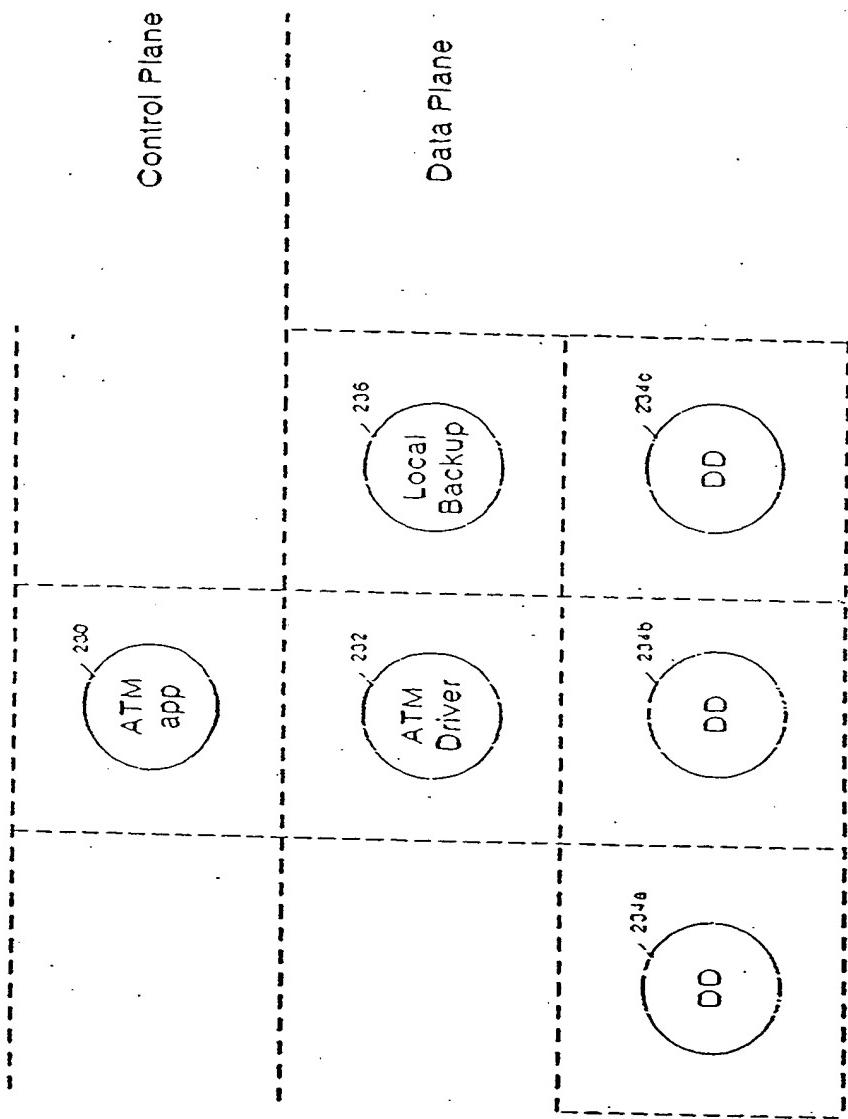


FIG. 25

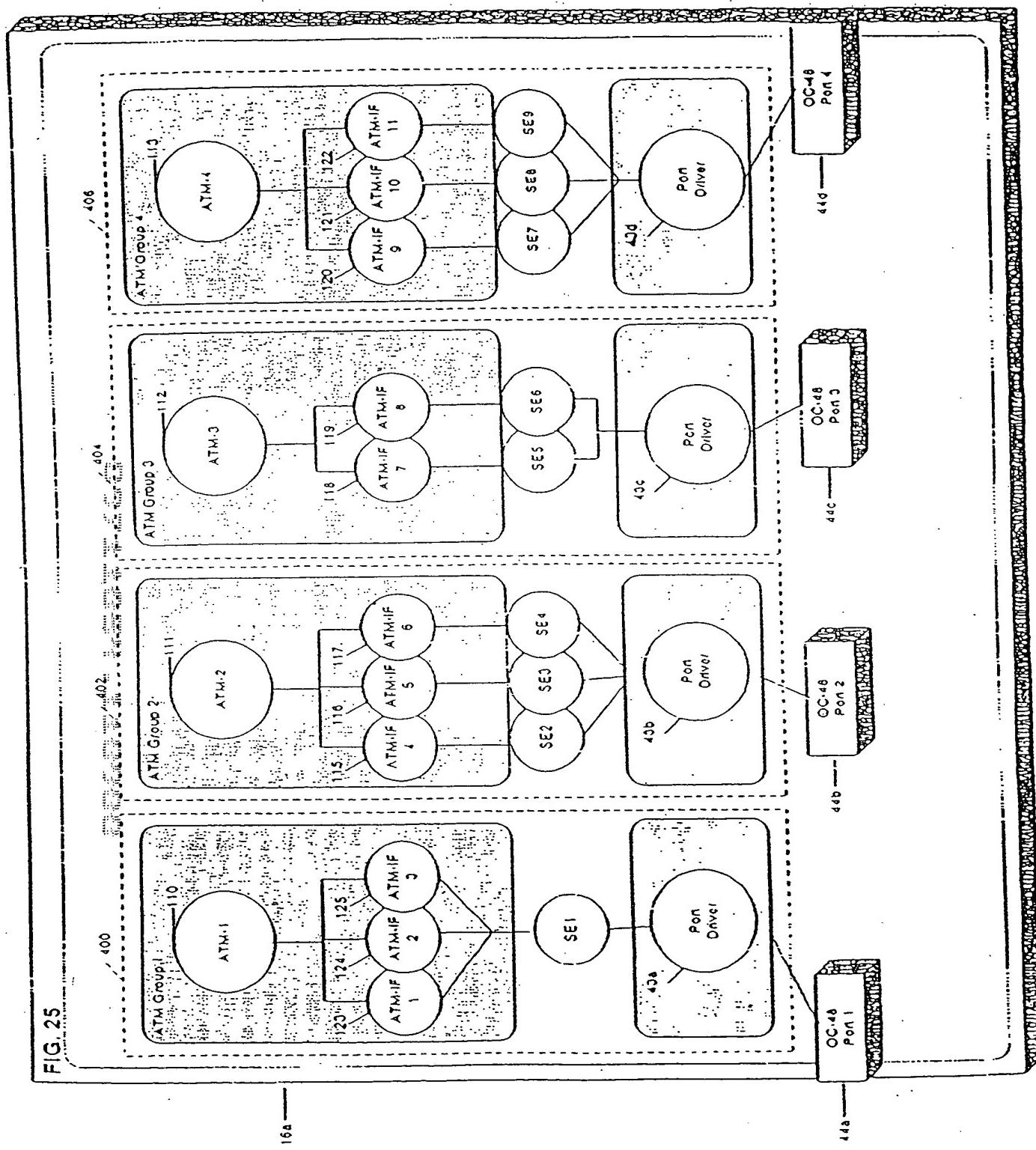


FIG. 26

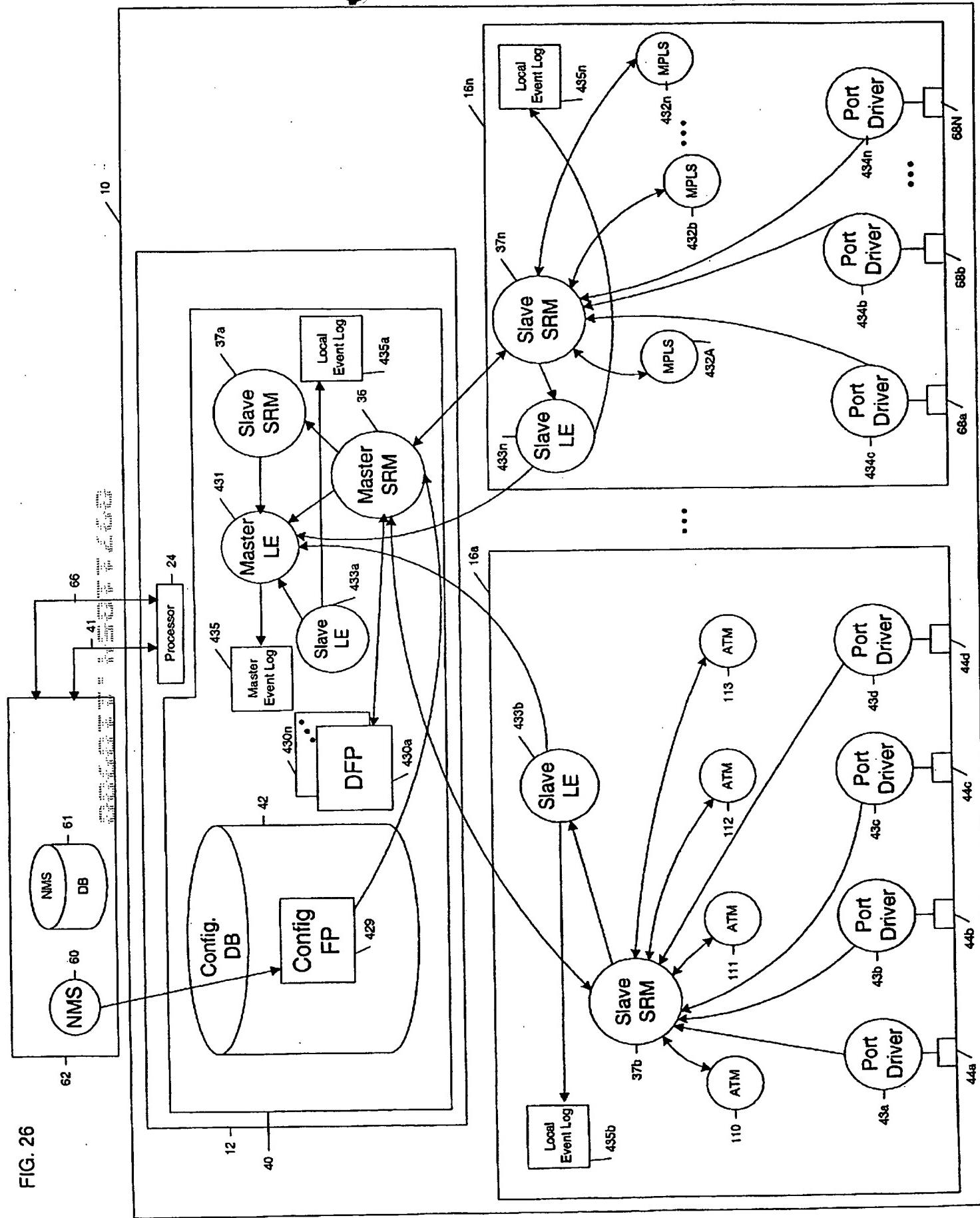


FIG. 27

ATM 110
406
437
438
439
440

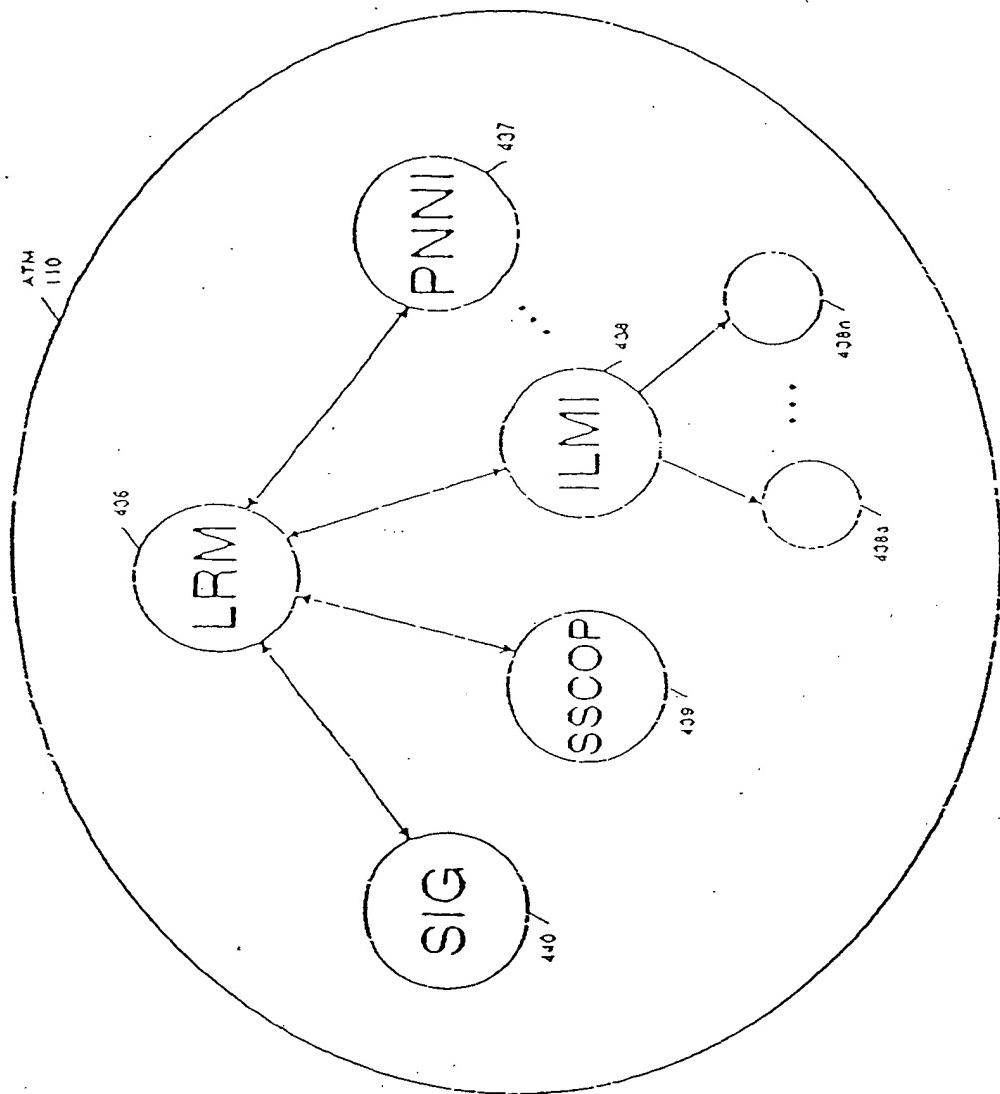
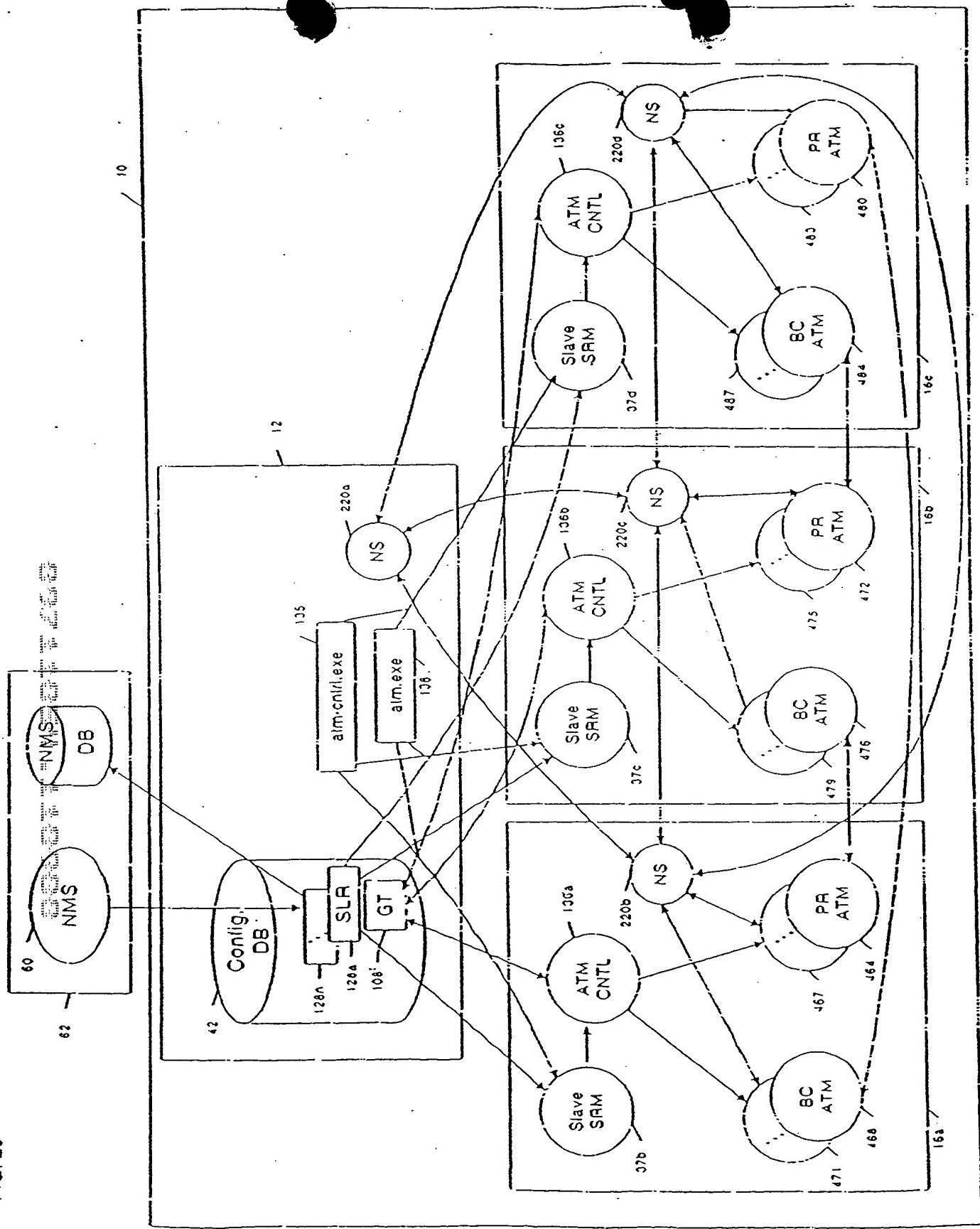


FIG. 28

441

Class	Sub-Class	Type
442 /	444 /	Instance 446 /

FIG. 29



Group Table 108'

447

449

Group #	Primary Card LID	Backup Card LID	...
450	1	30	31
451	2	30	31
452	3	30	31
453	4	30	31
454	5	31	32
455	6	31	32
456	7	31	32
457	8	31	32
458	9	32	30
459	10	32	30
460	11	32	30
461	12	32	30
	:	:	:
	:	:	:
	:	:	:

Fig. 31a

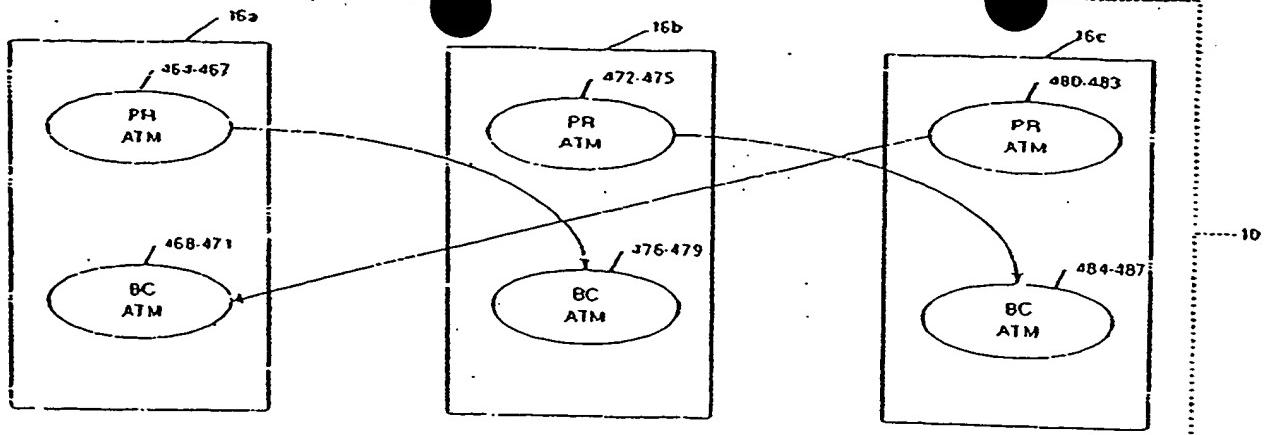


Fig. 31b

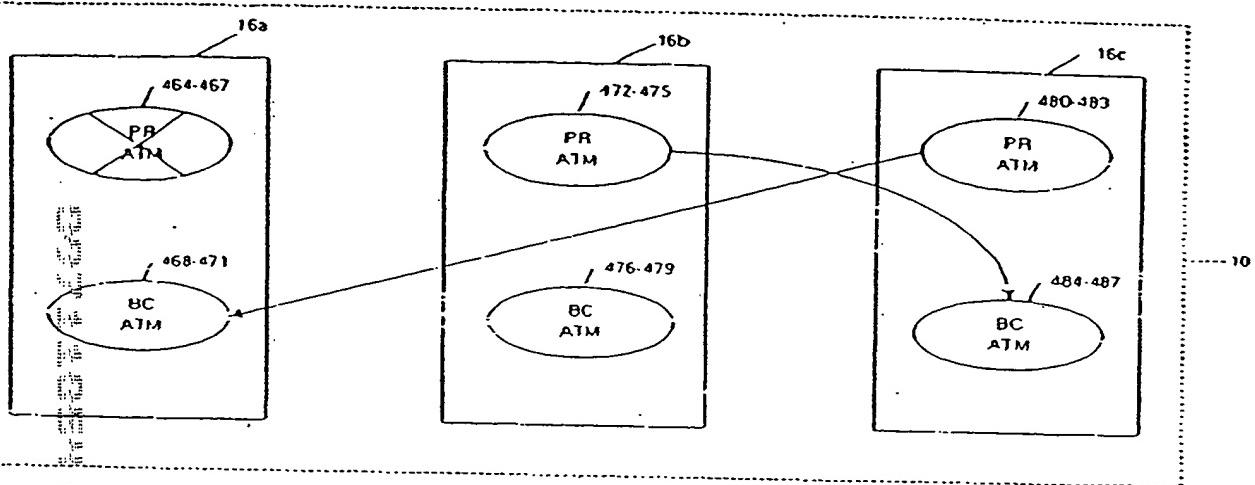
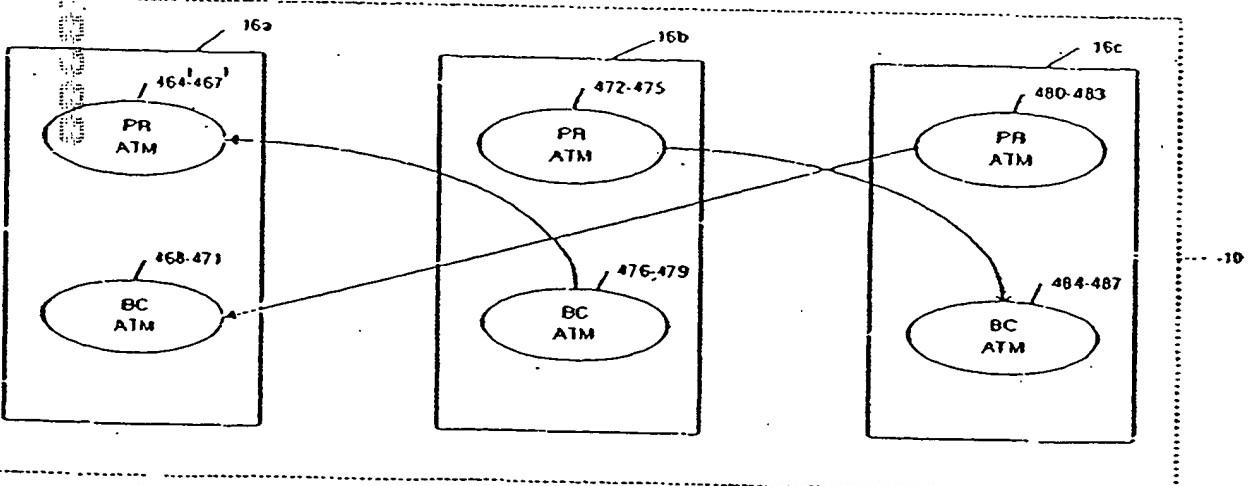
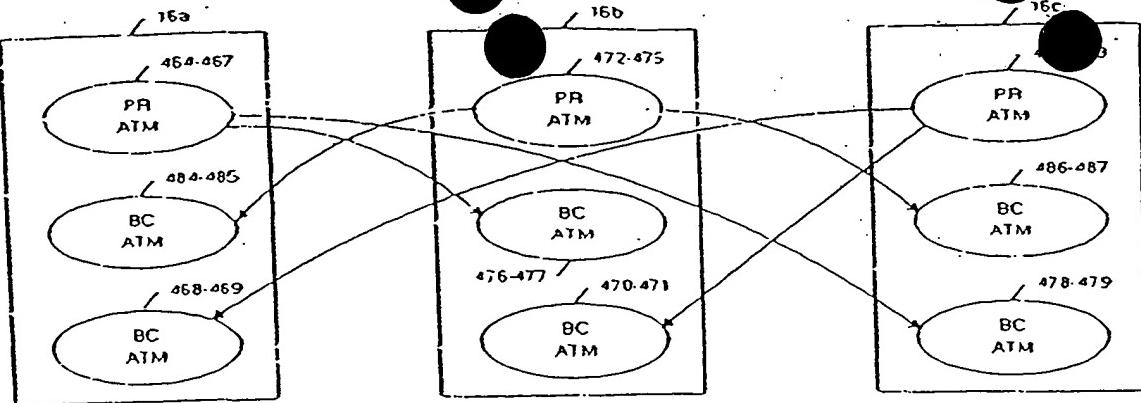


Fig. 31c



fly-OC



L
32A

Fig. 32b

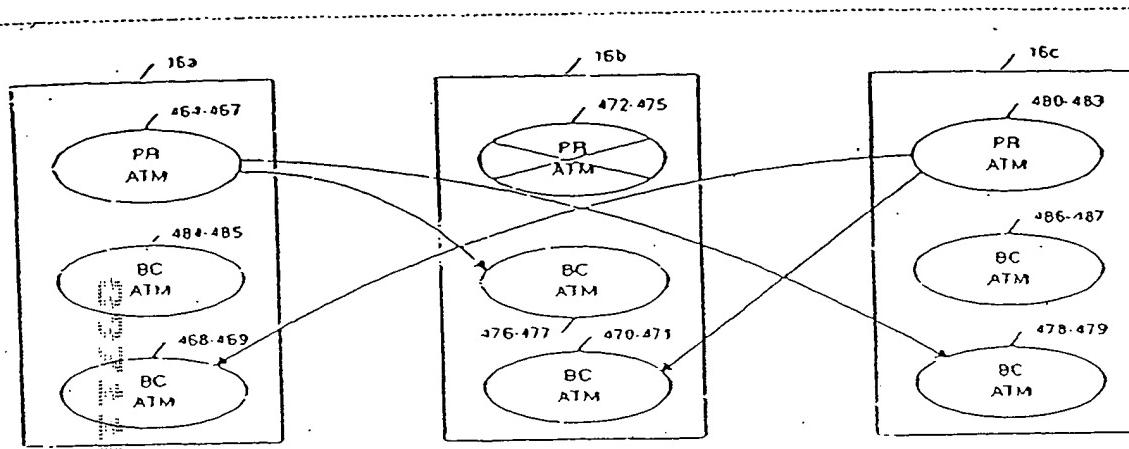


Fig. 32c

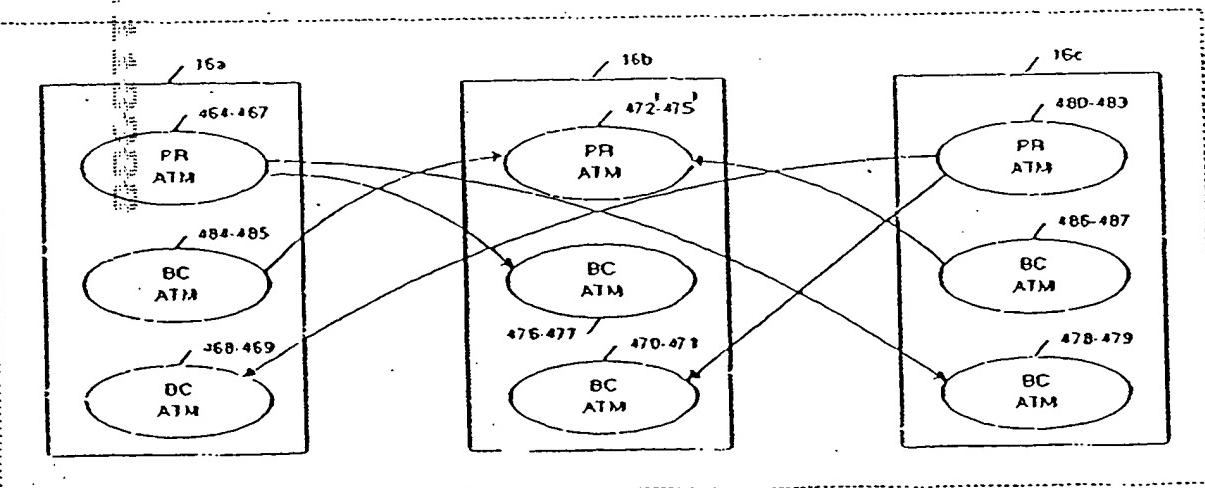


FIG. 33a

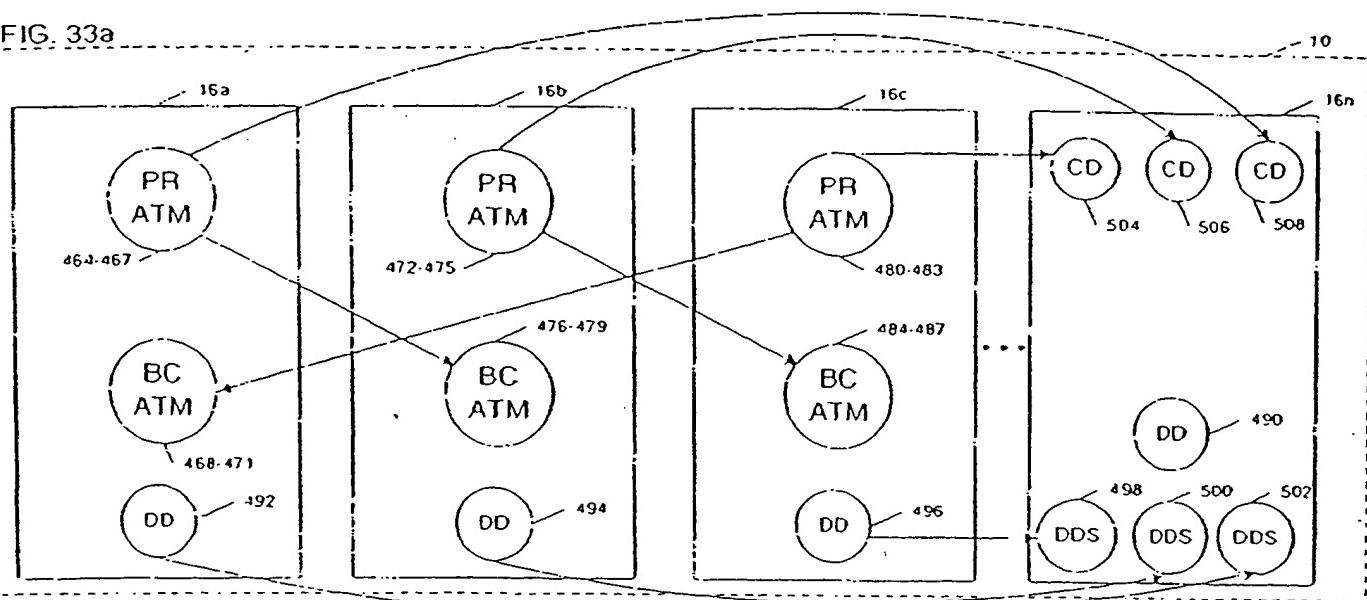


FIG. 33b

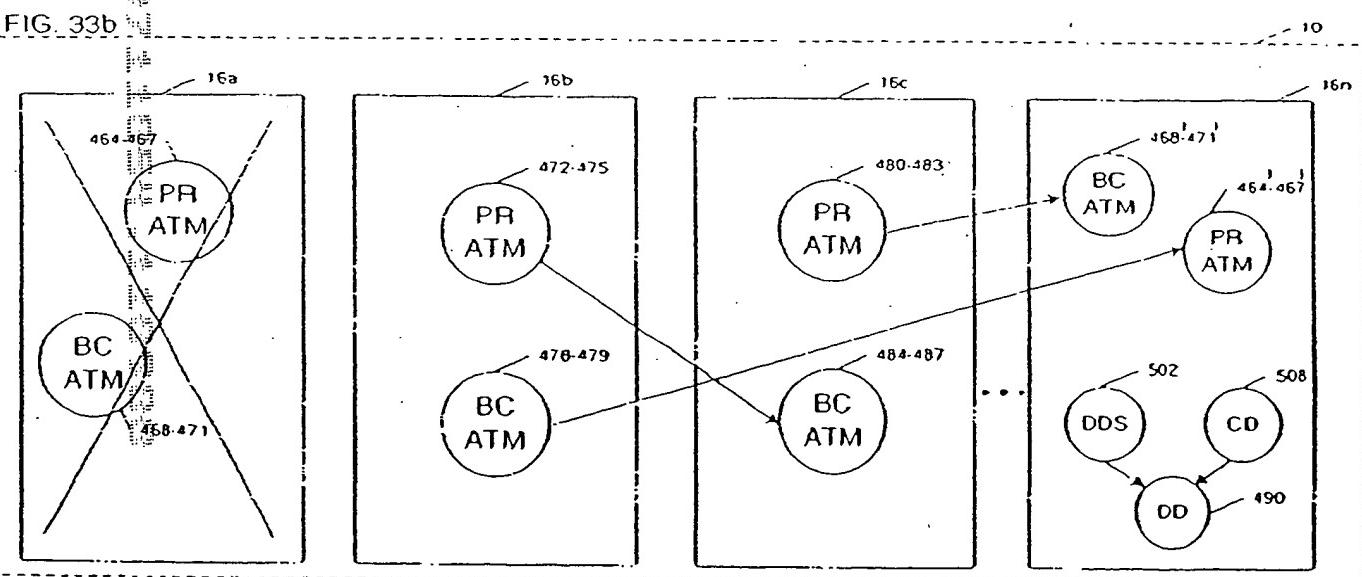
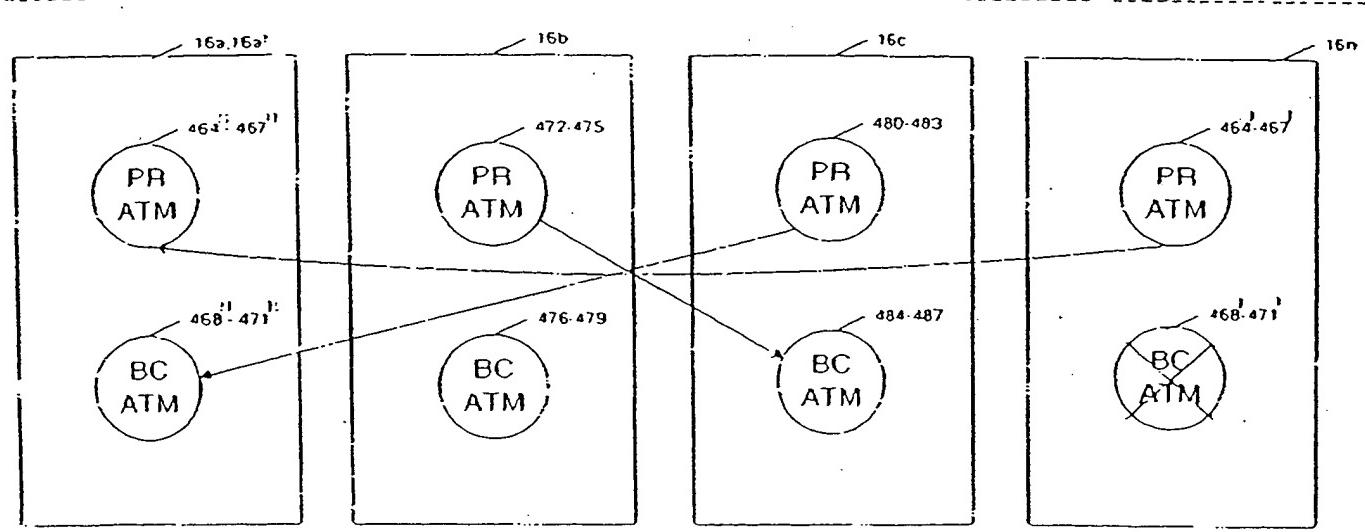


FIG. 33c

10



IG. 33d

10

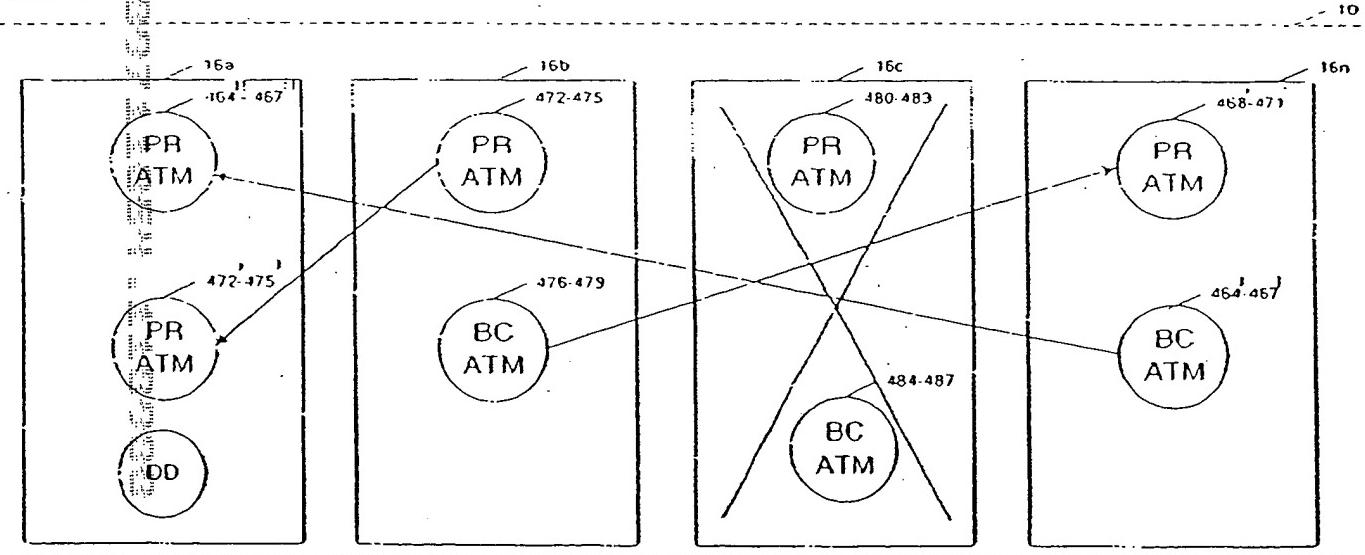
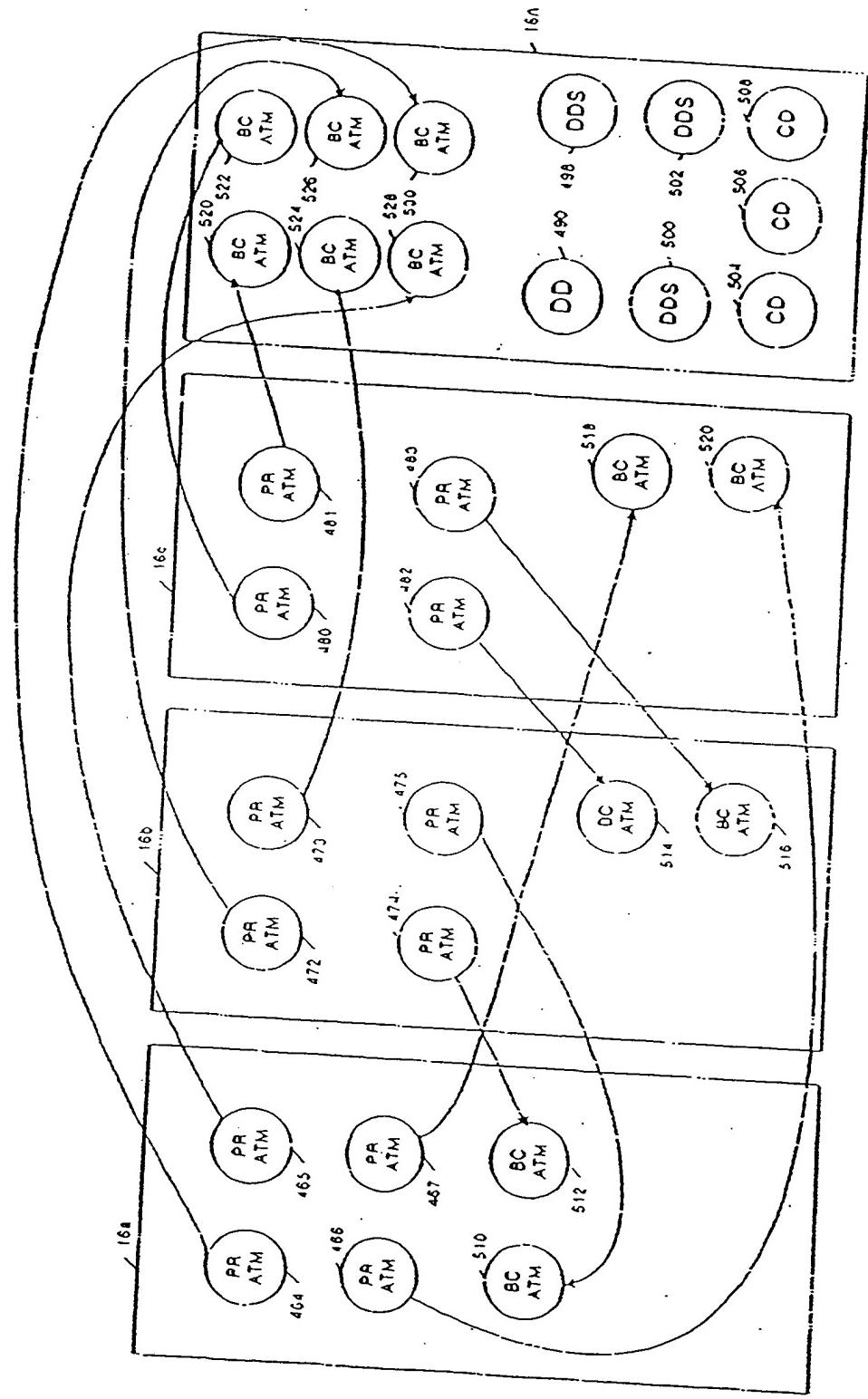


Fig. 34a



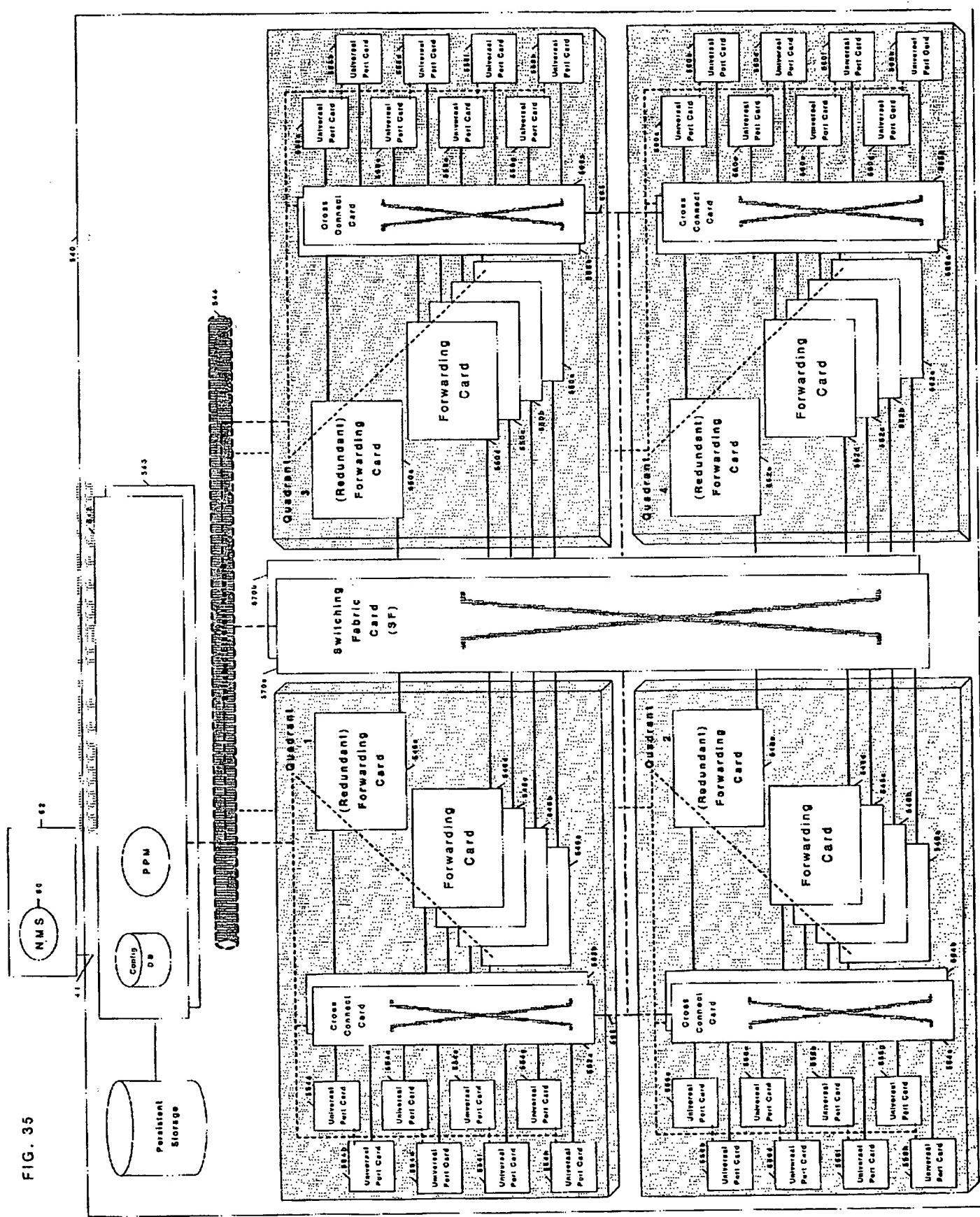


FIG. 36

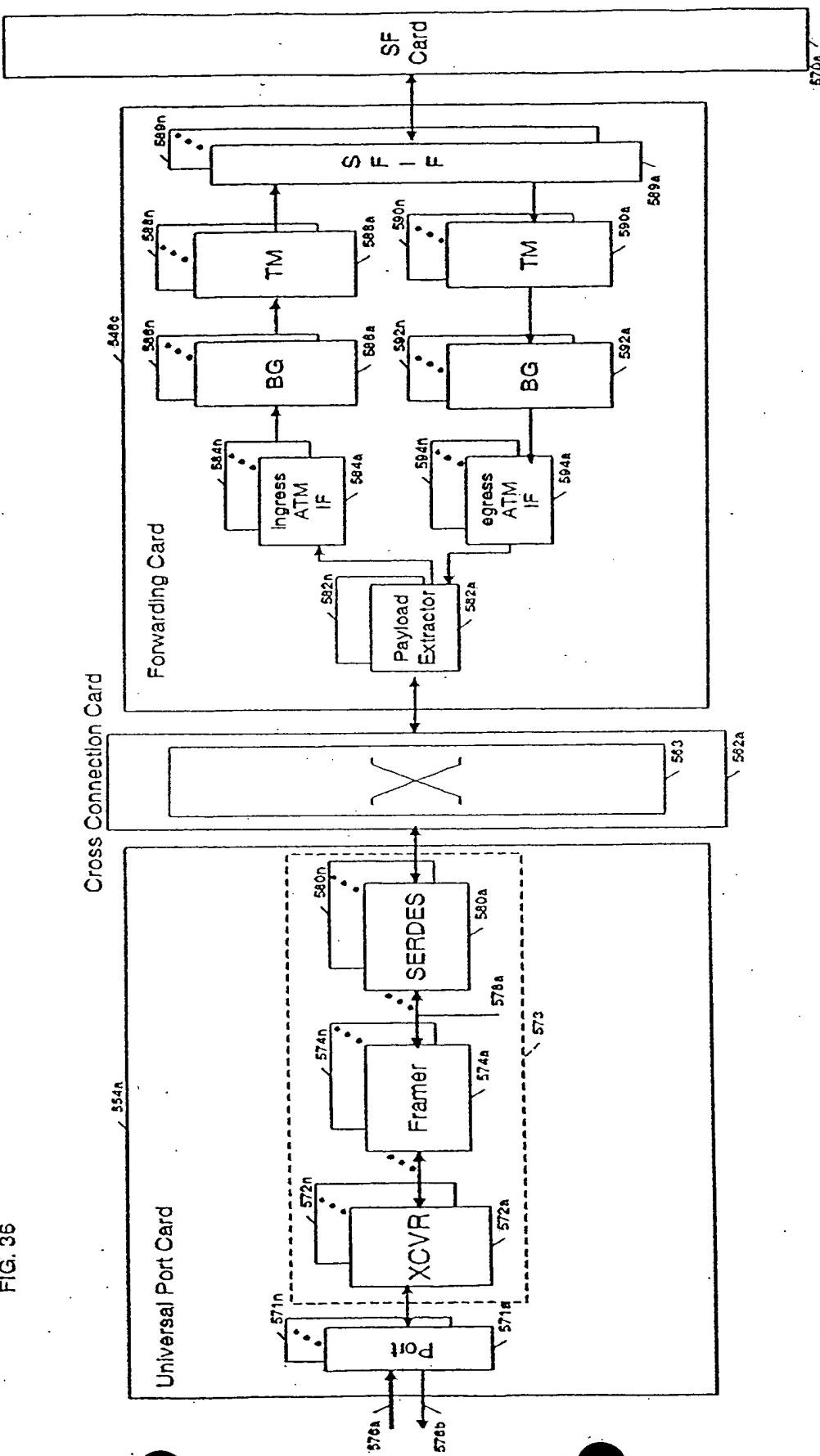
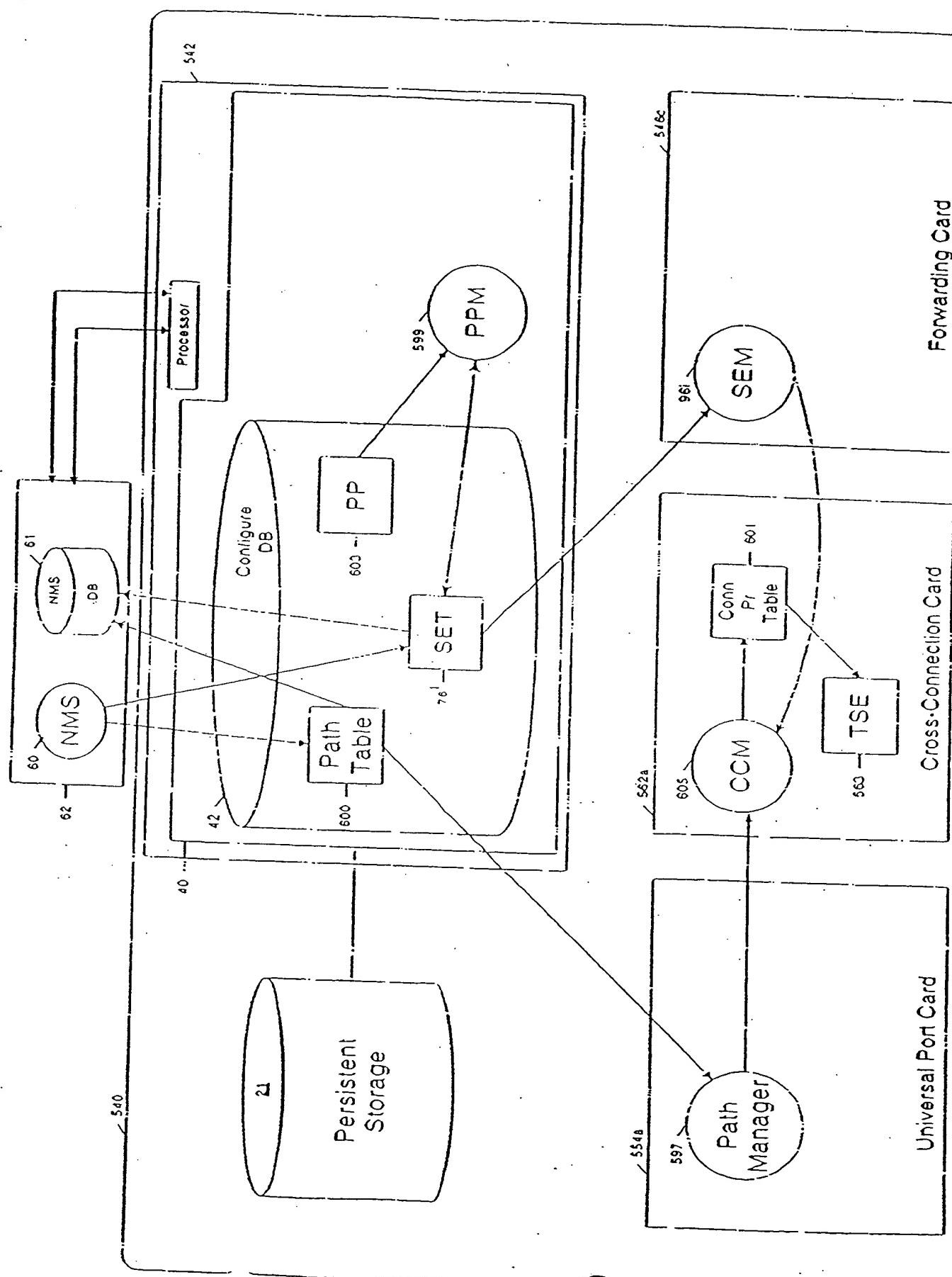


FIG. 37



Forwarding Card

Cross Connection Card

Universal Port Card

EG 38

Path Table 600

Path LID	UP Port LID	Time Slot	# Of Time Slots	...
1666	1231	4	3	...
602				...
				...
				...

FIG. 39

Service End Point Table 76'

SE #	Q #	FC LID	FC Slice	FC Time Slot	Path PID	...
878	1				1666	
...	
...	
...	
604						

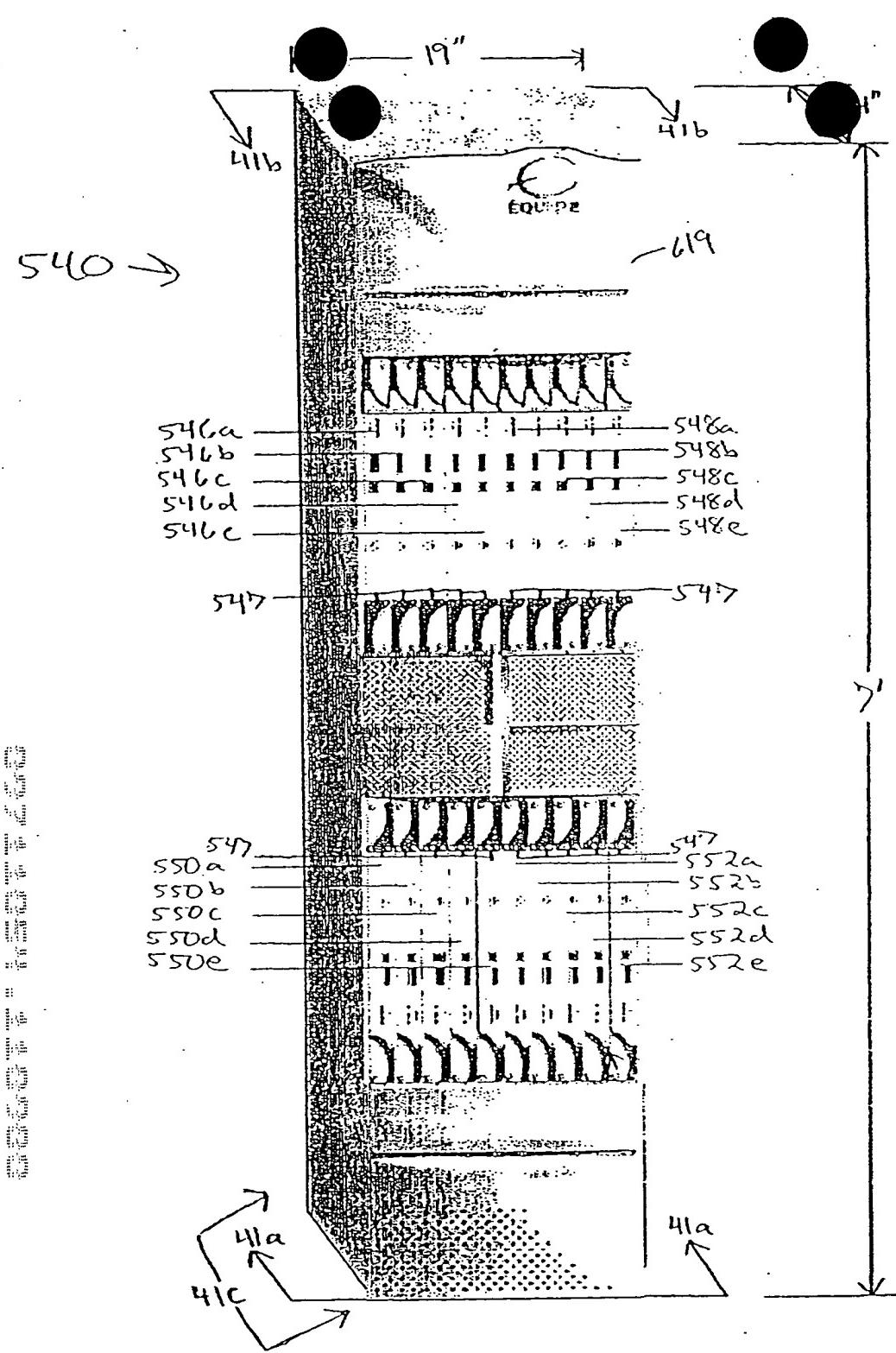


Fig. 40

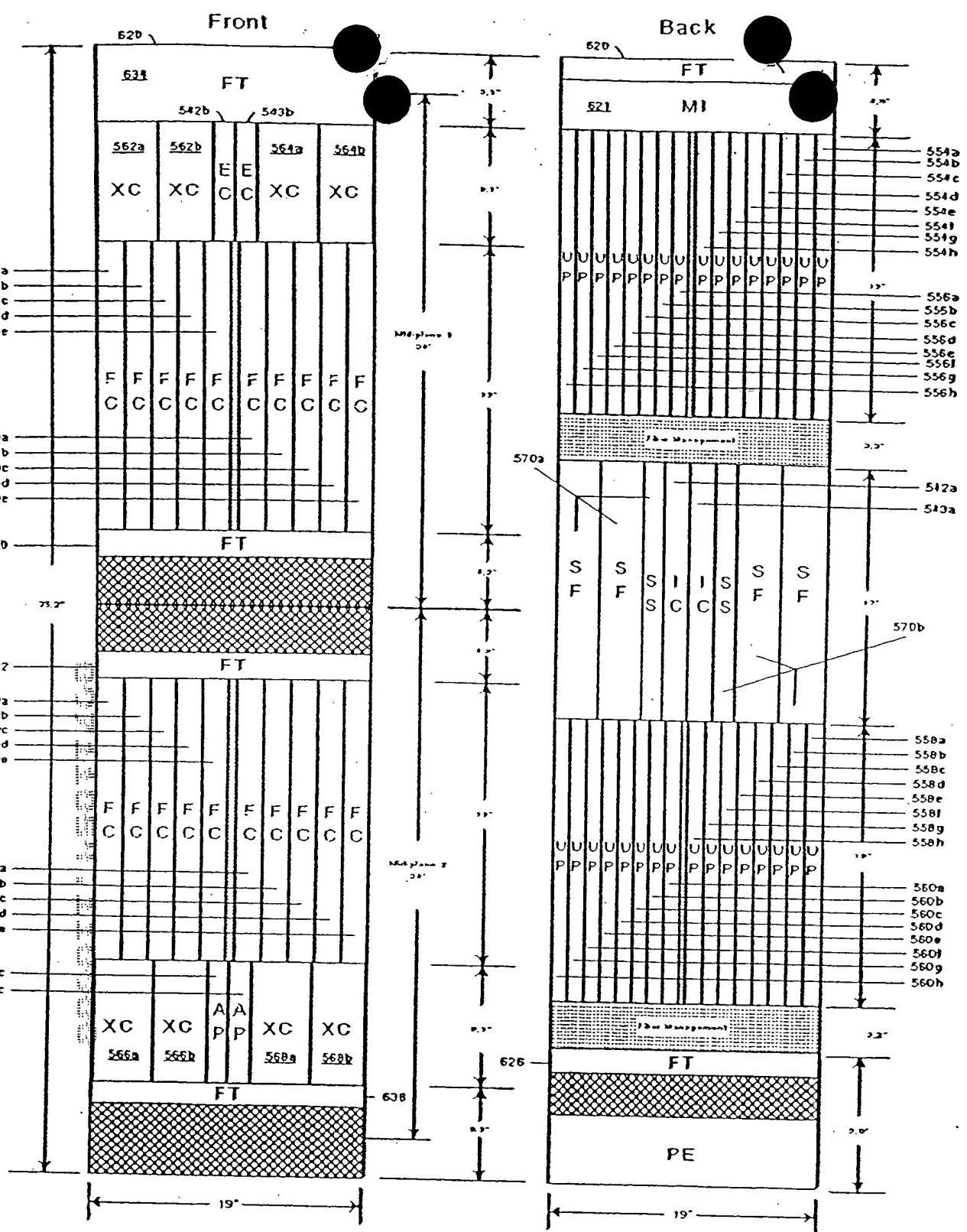


Fig. 41A

Fig. 41B

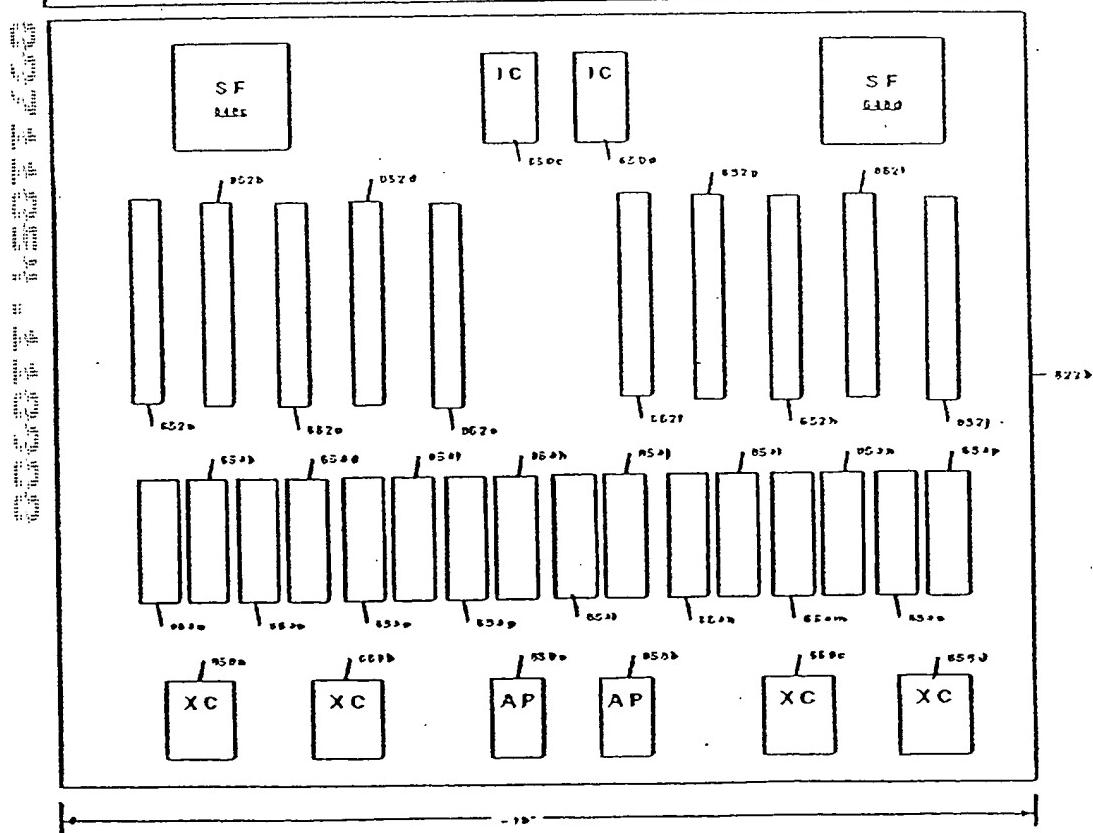
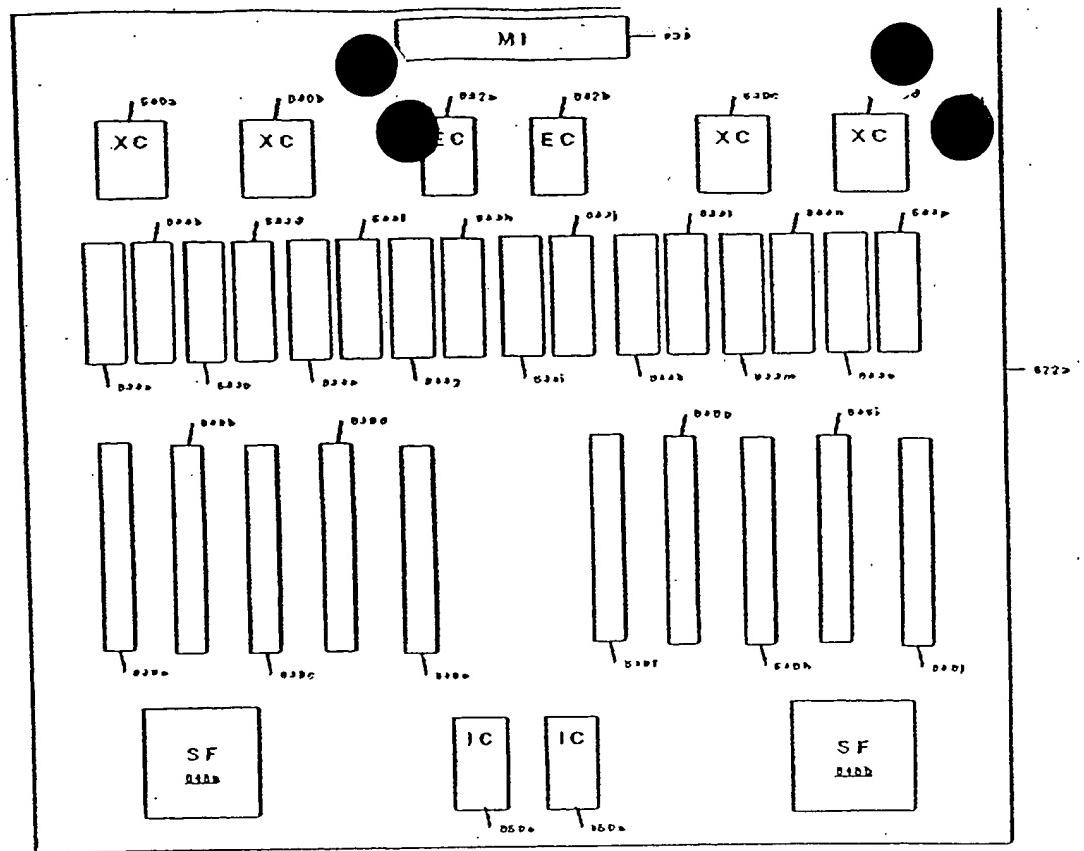
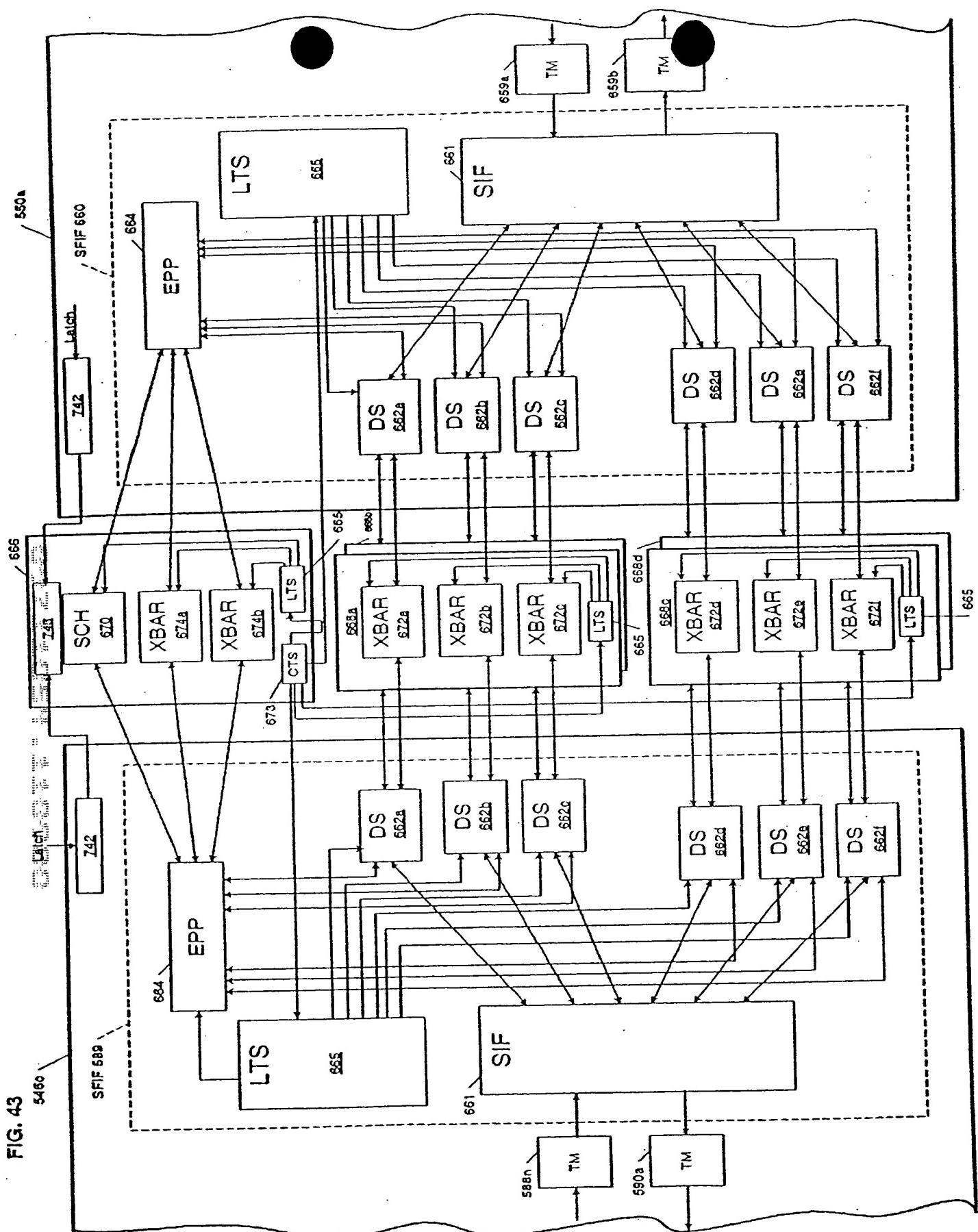
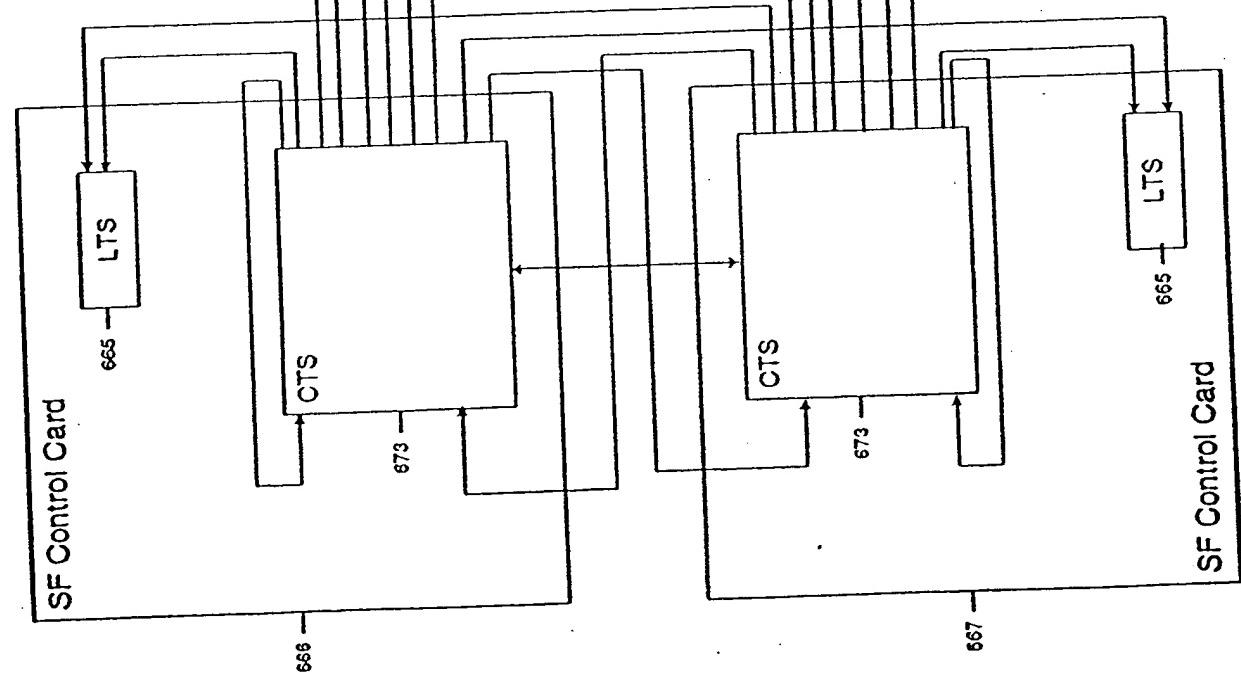


Fig. 42

FIG. 43



540



540
↓
SF Control Card

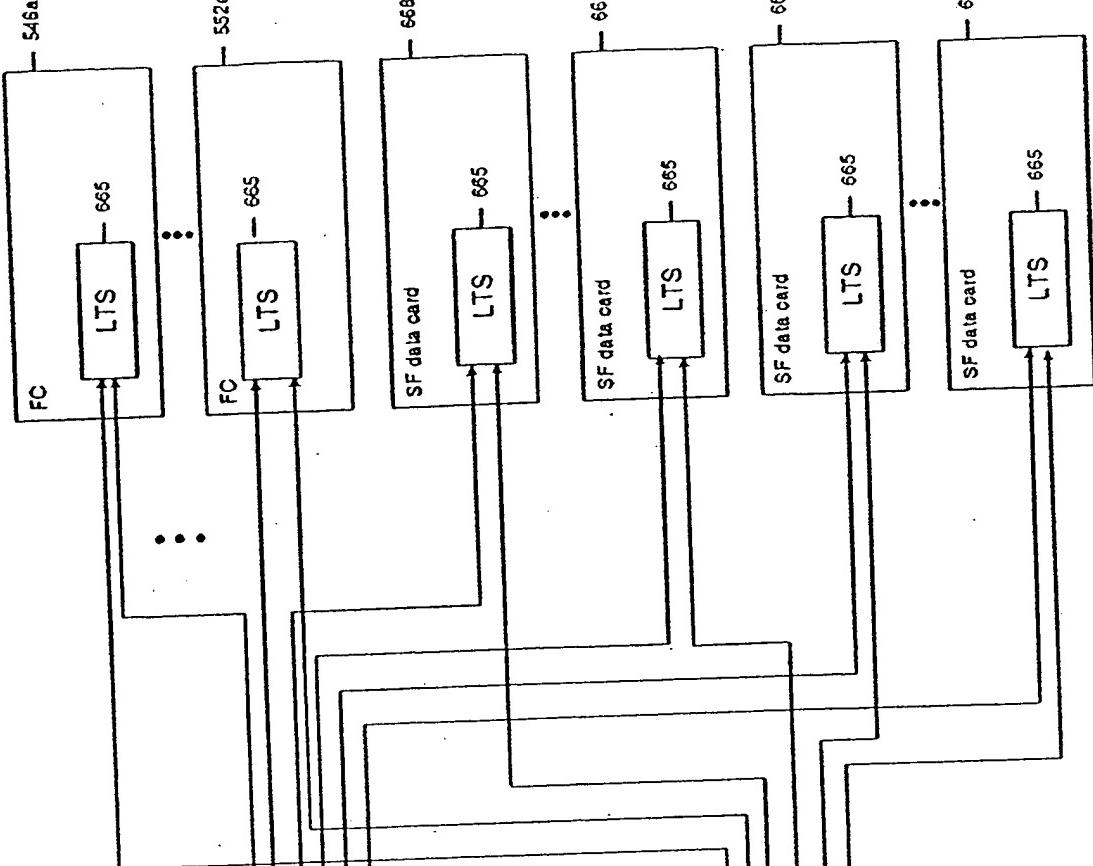
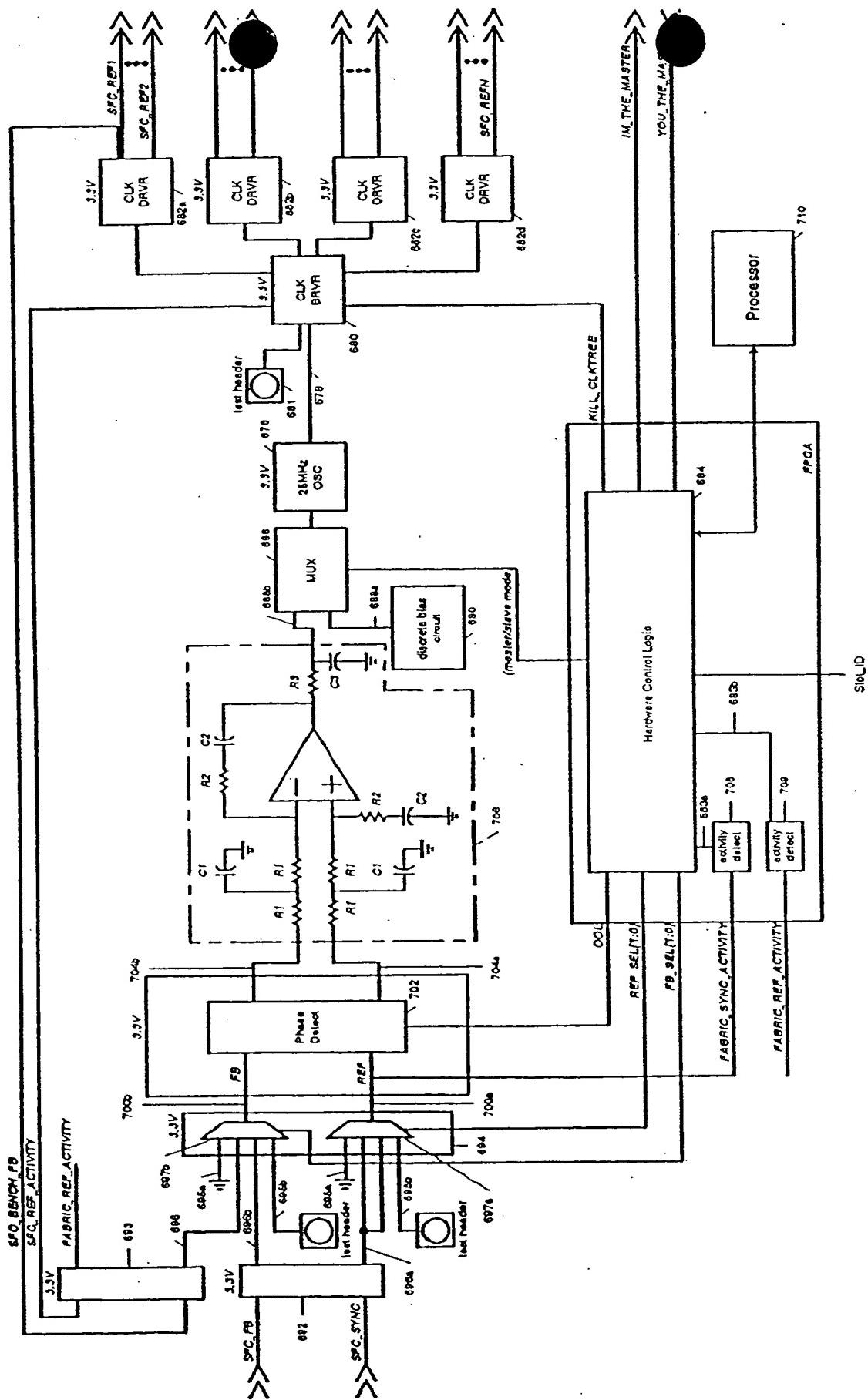


FIG. 44

FIG. 45

673



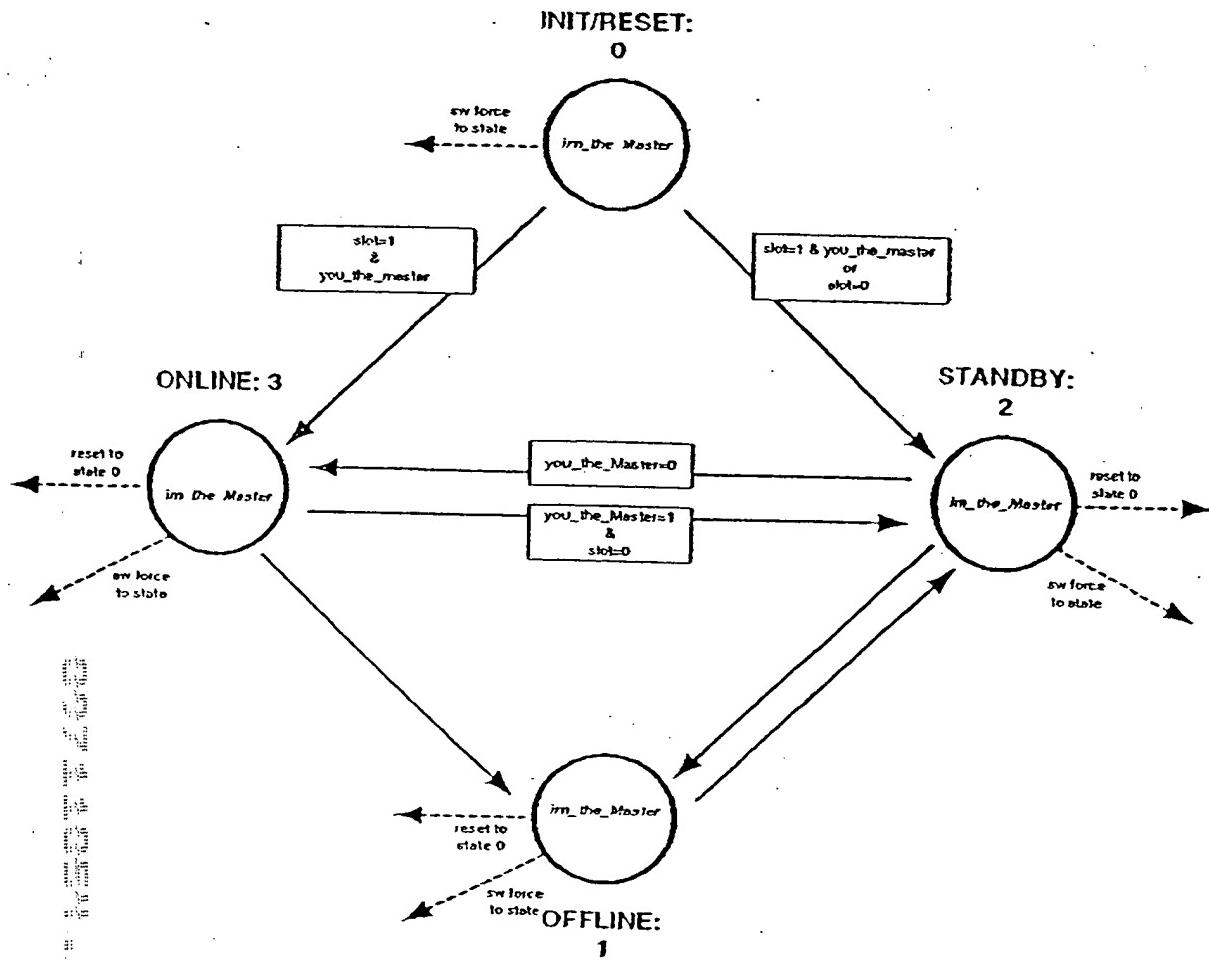


FIG. 46

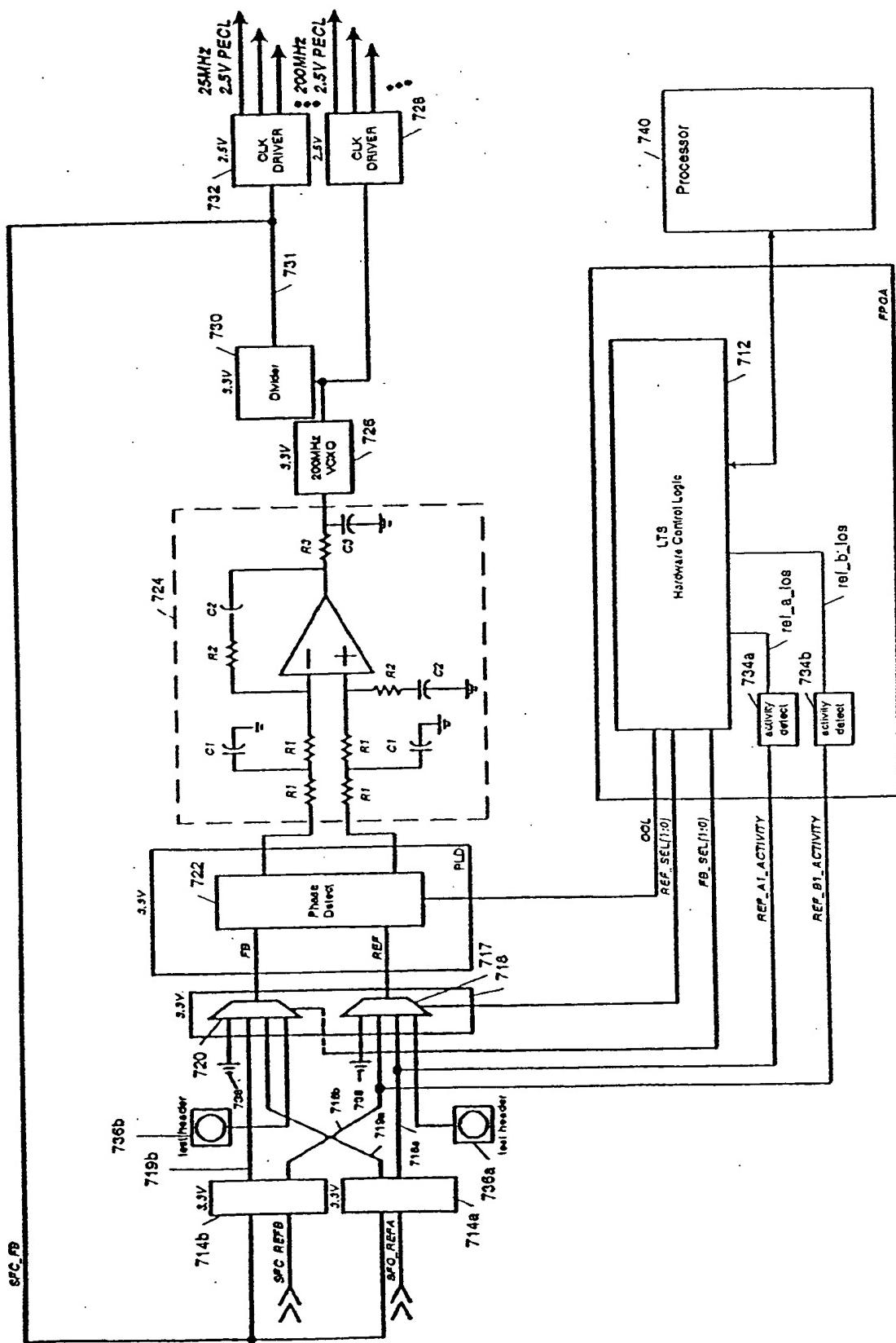


FIG. 47

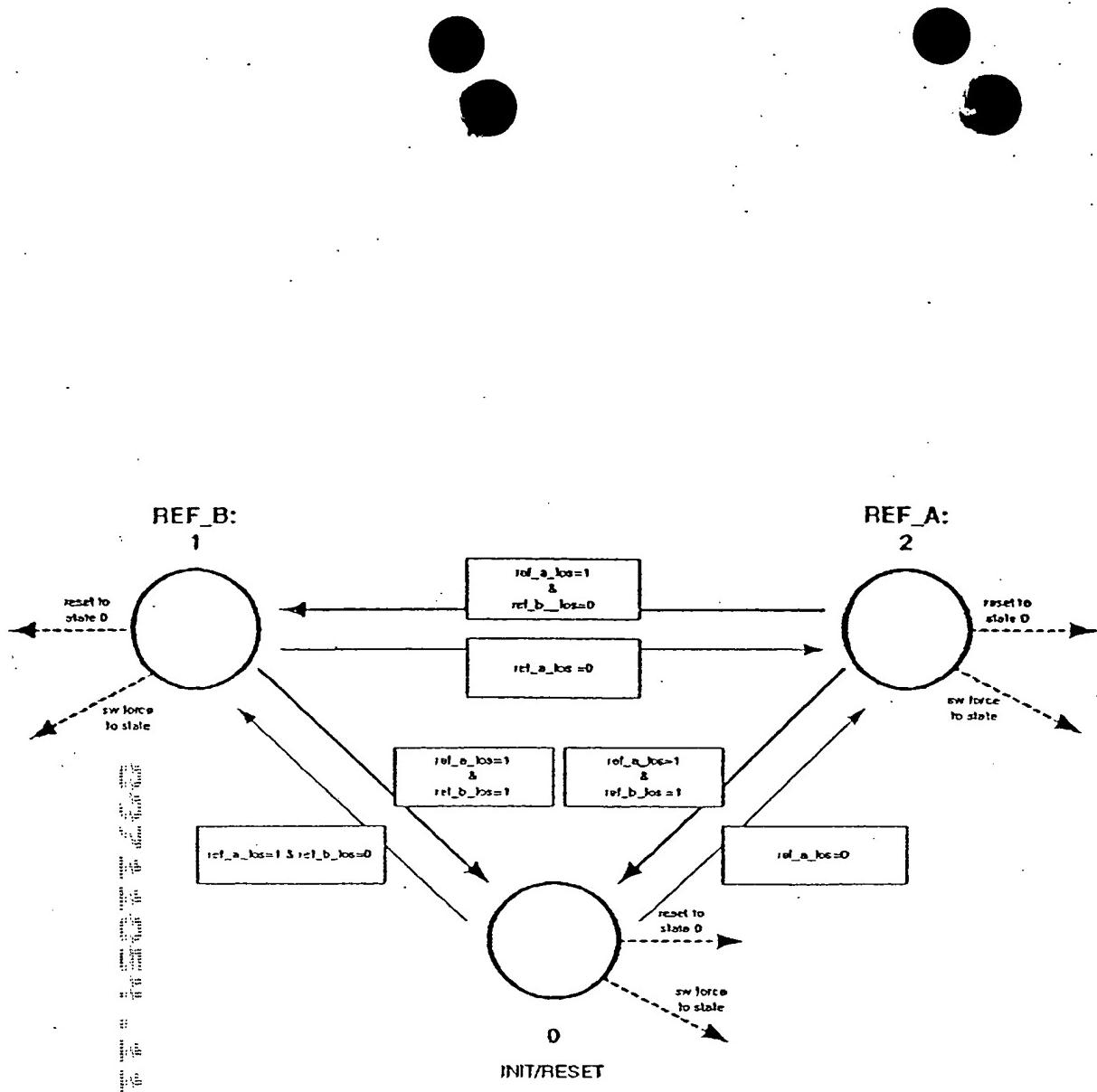


FIG. 48

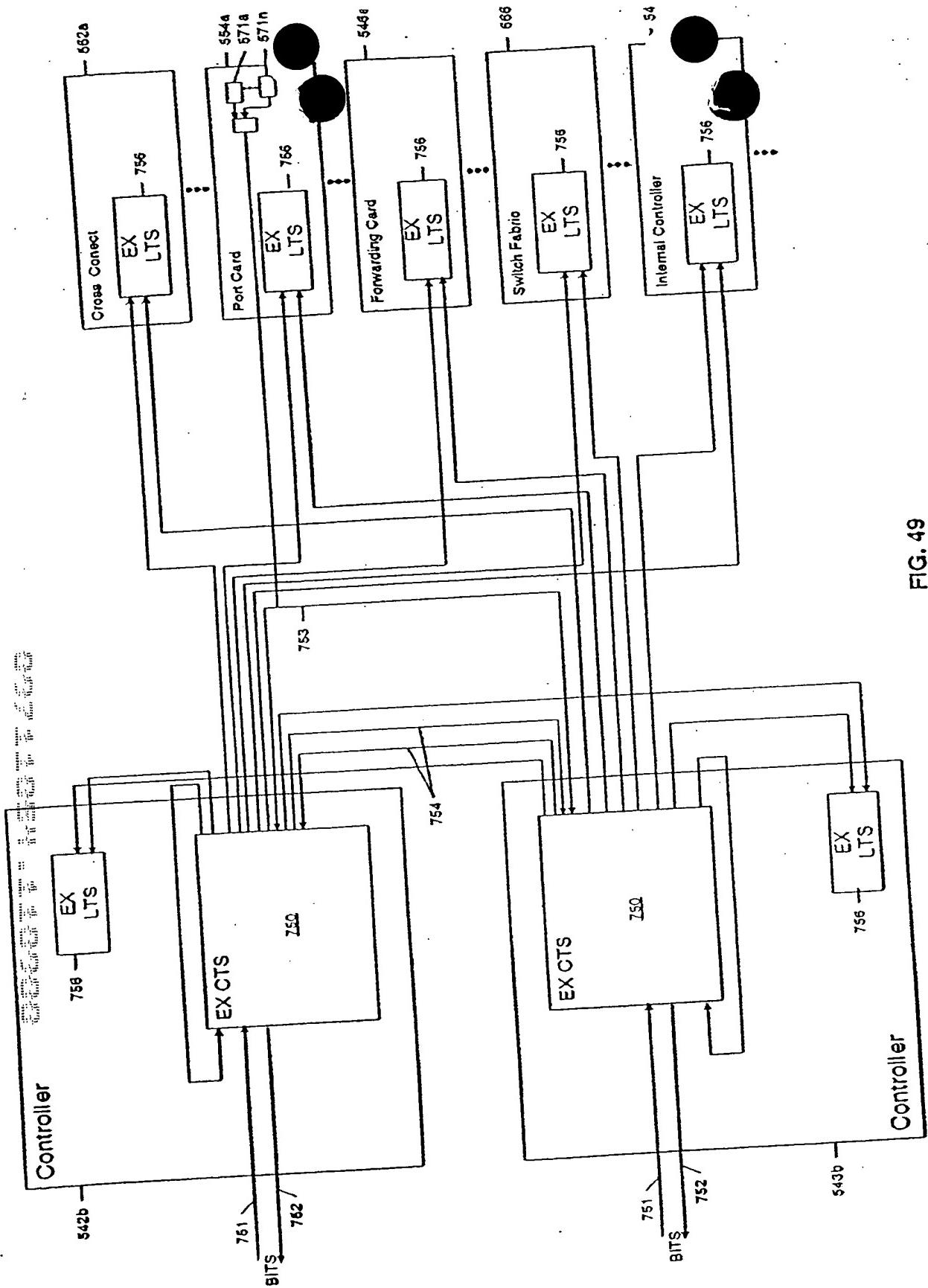
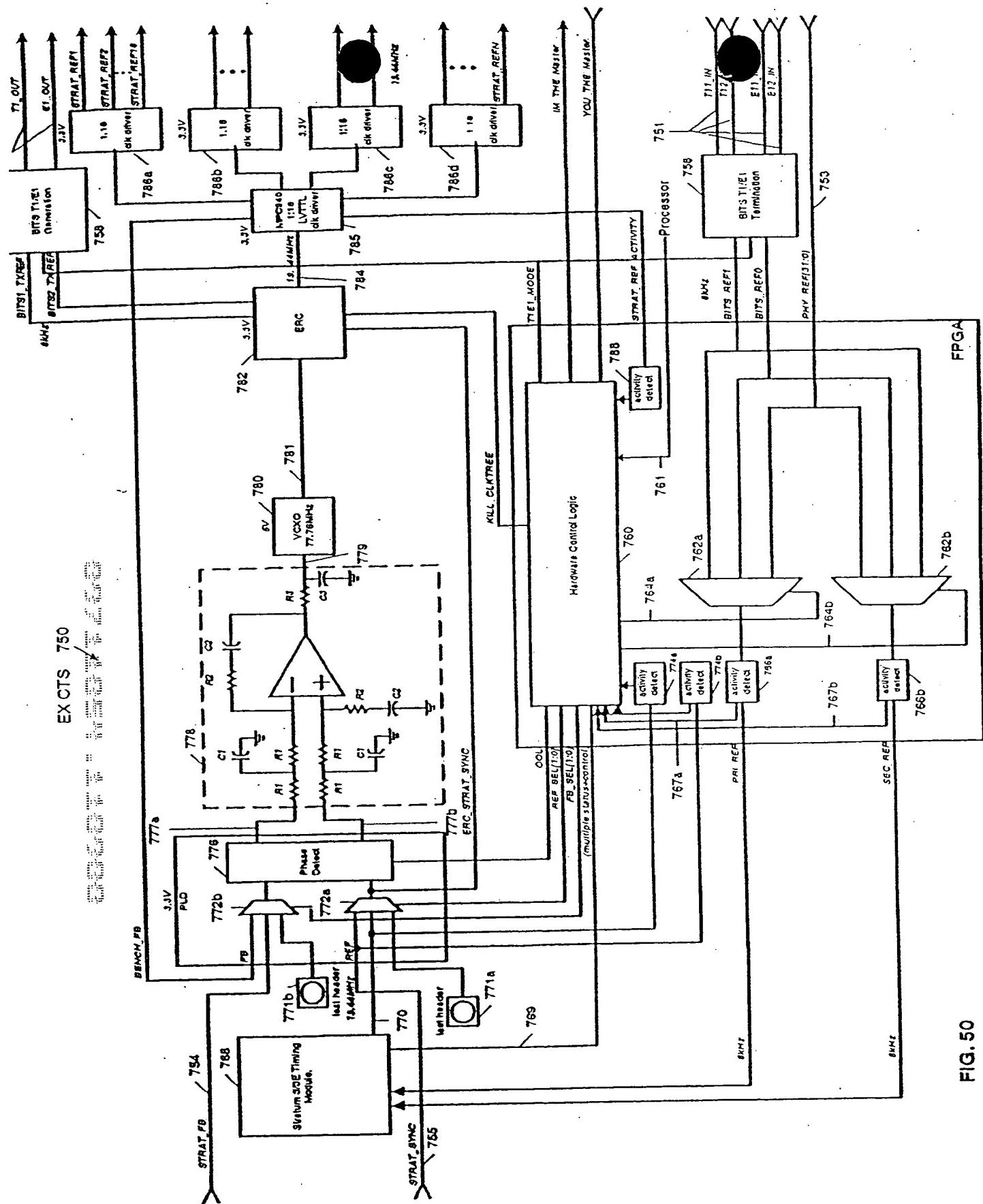


FIG. 49

EXCTS 750



50

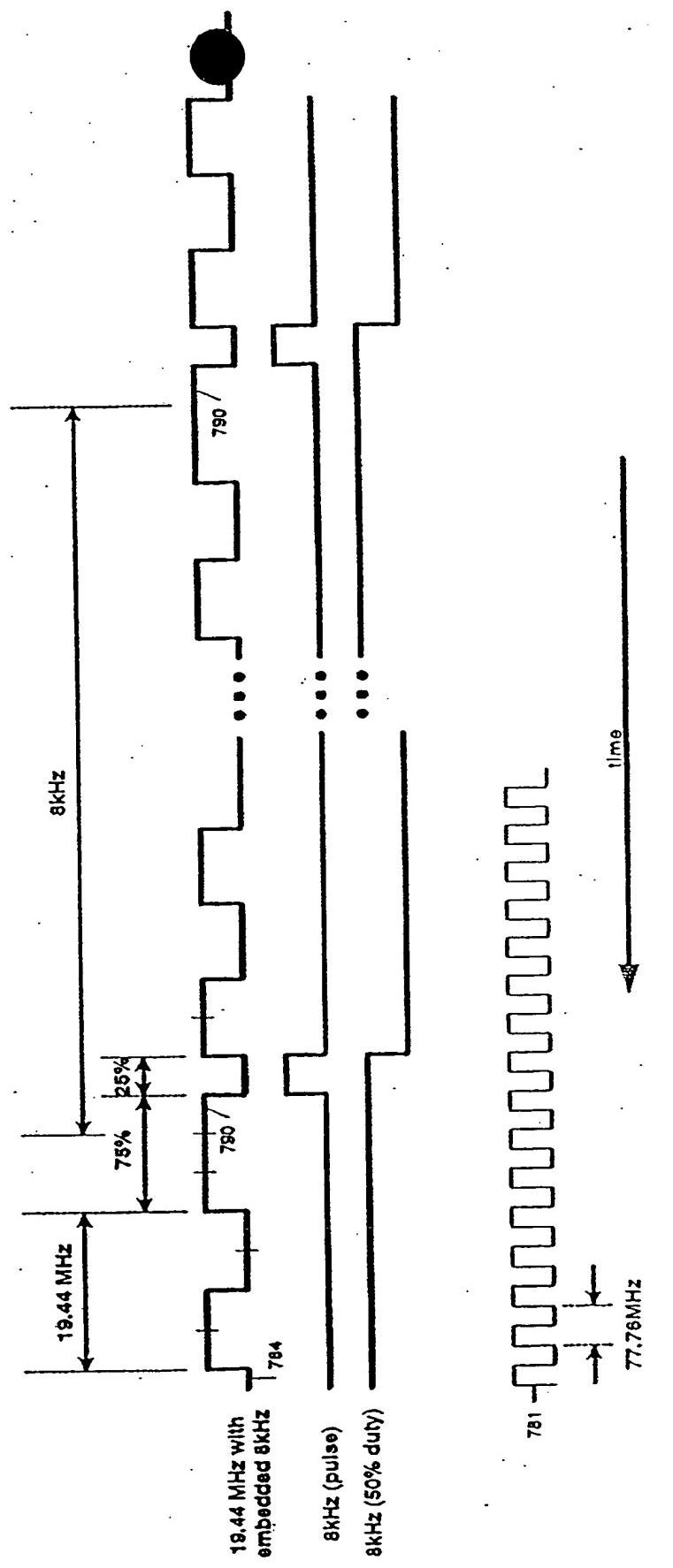
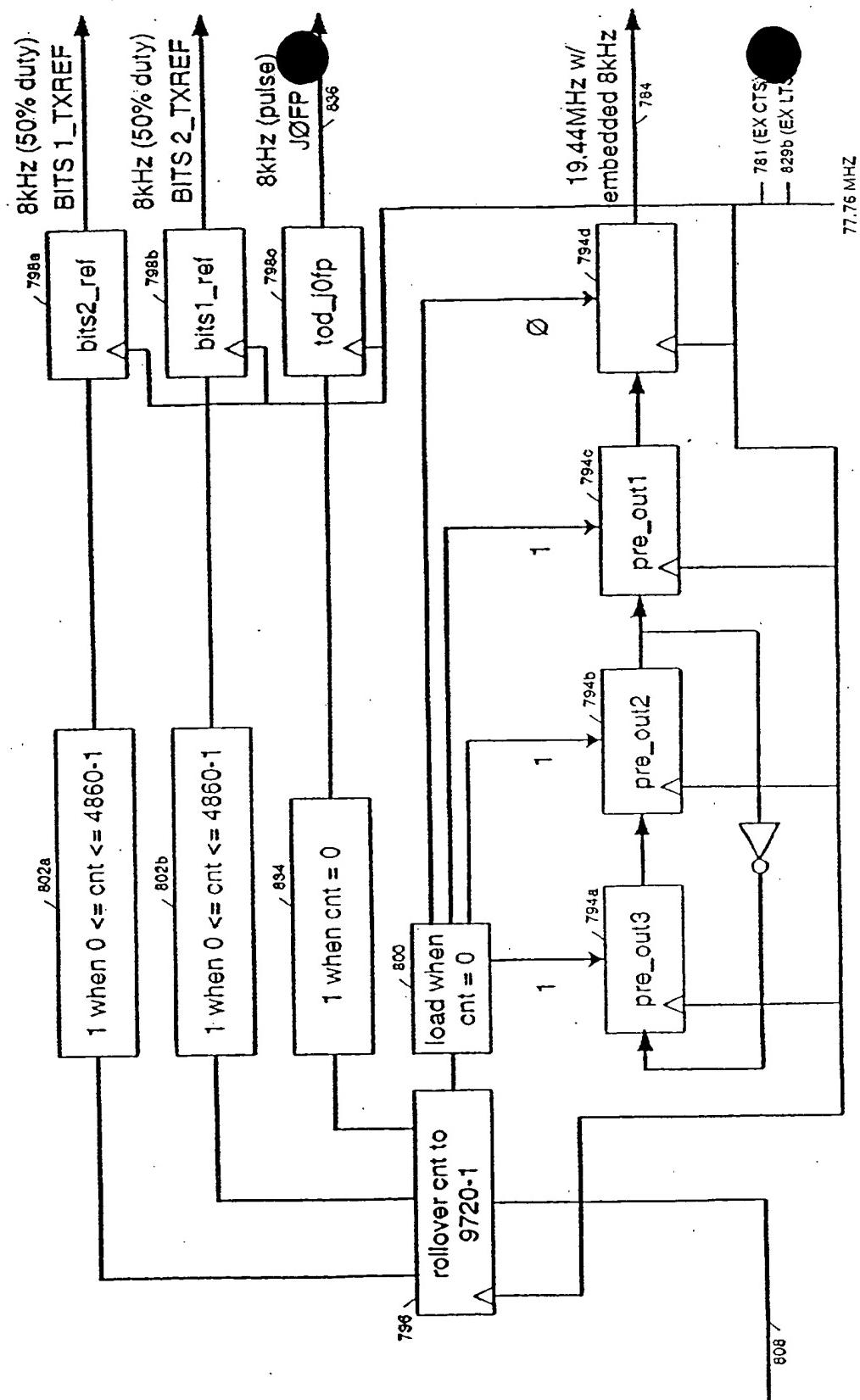


FIG. 51

Fig. 52



ERC_STRAT_SYNC (EX CTS)
 STRAT_REF_A or STRAT_REF_B (EX LTS) 832
 19.44MHz with encoded 8kHz
 (must be pulled low when not present)

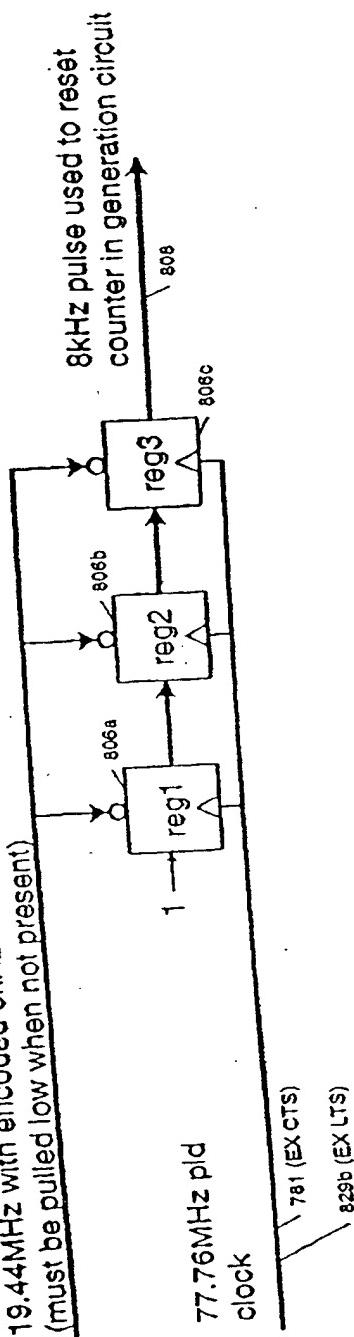


FIG. 53

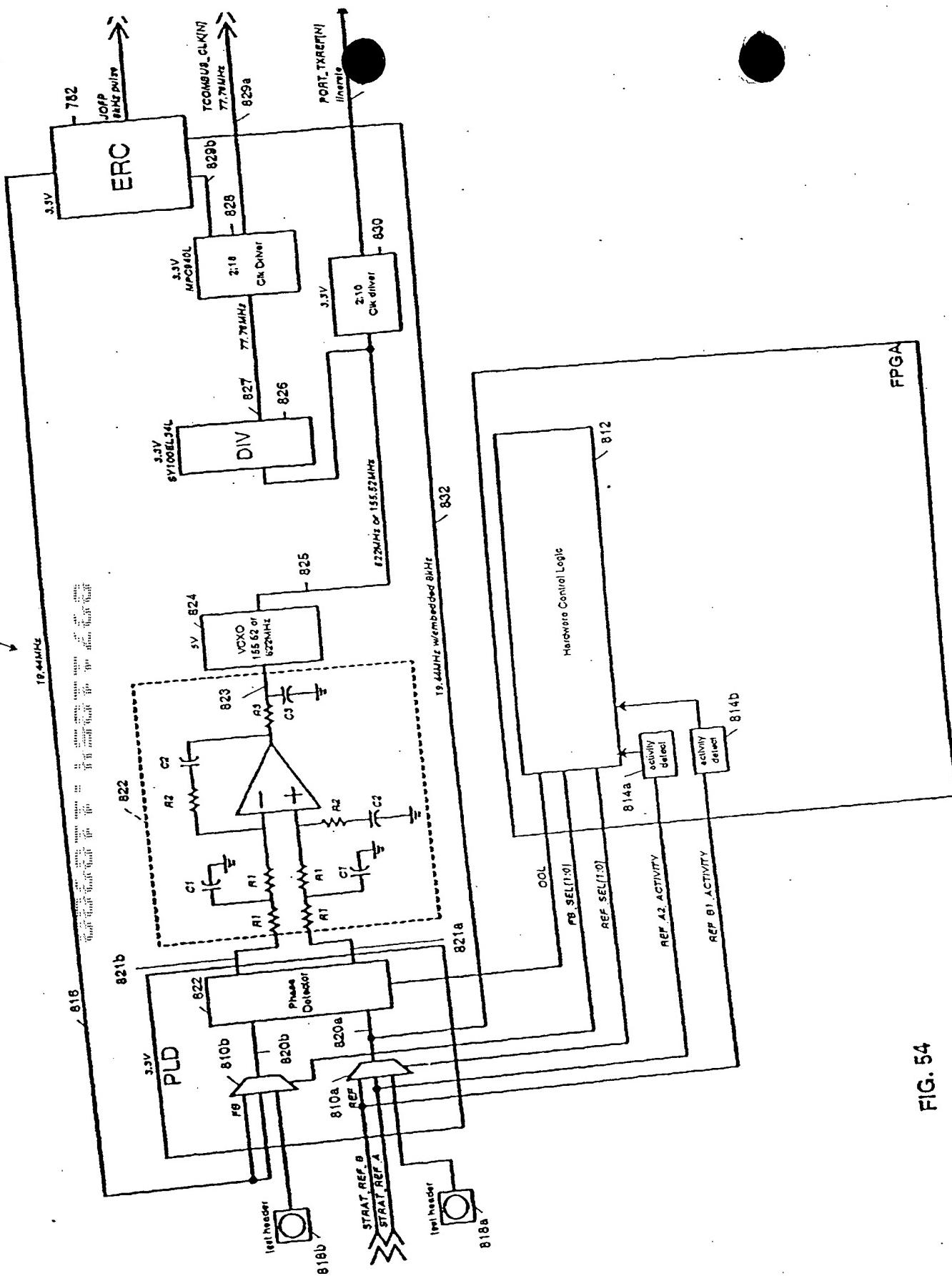


FIG. 54

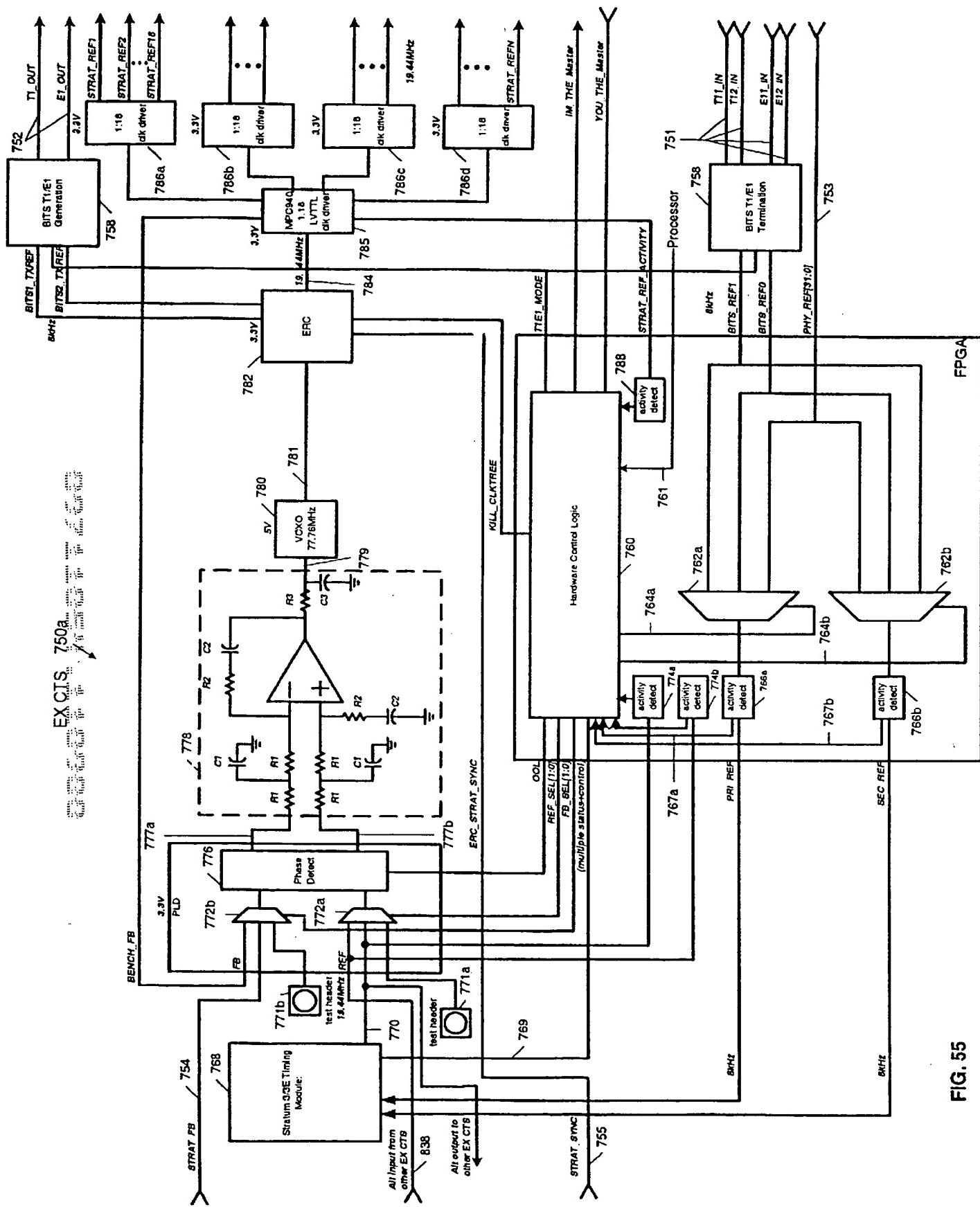


FIG. 55

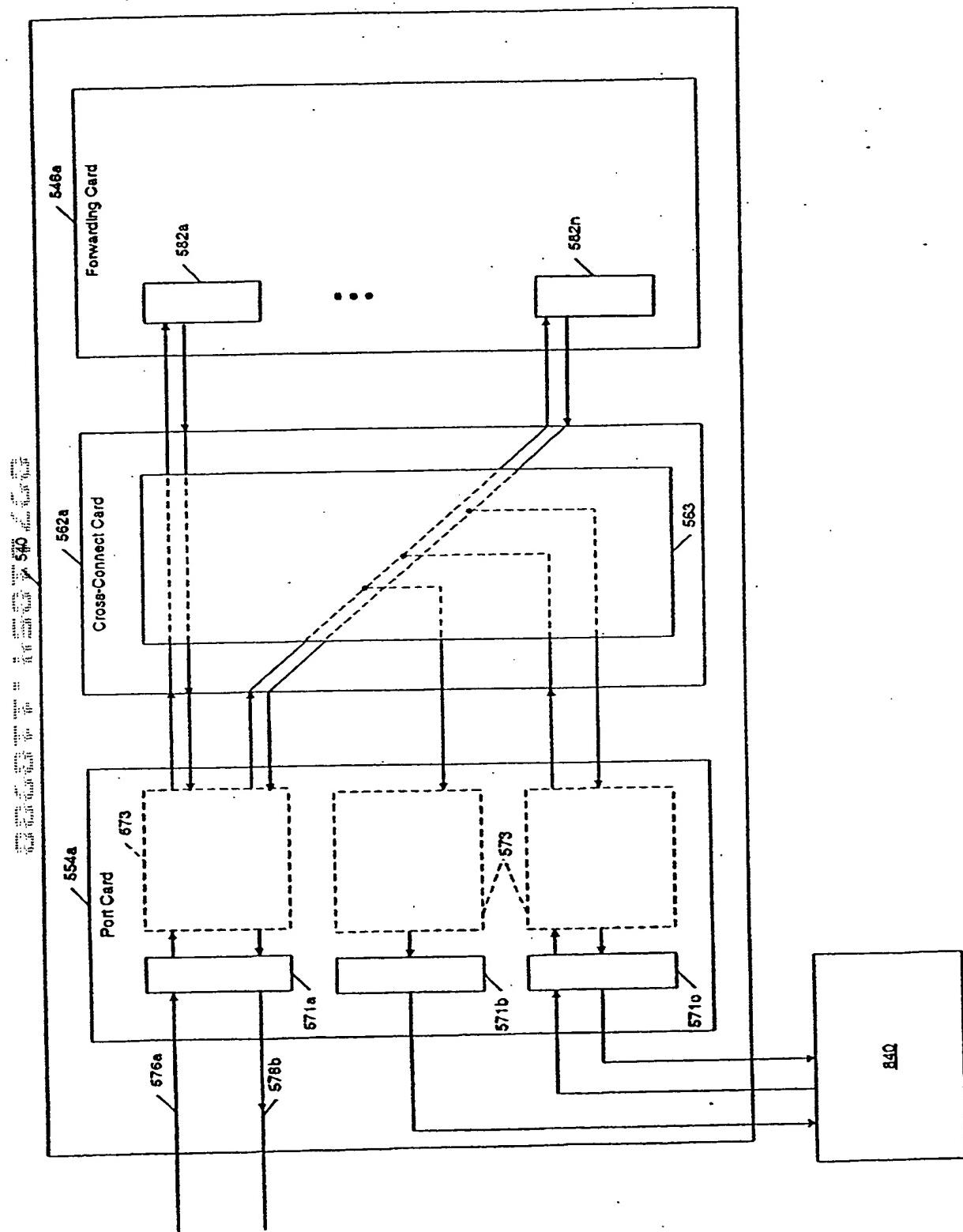


Fig. 56

FIG.57

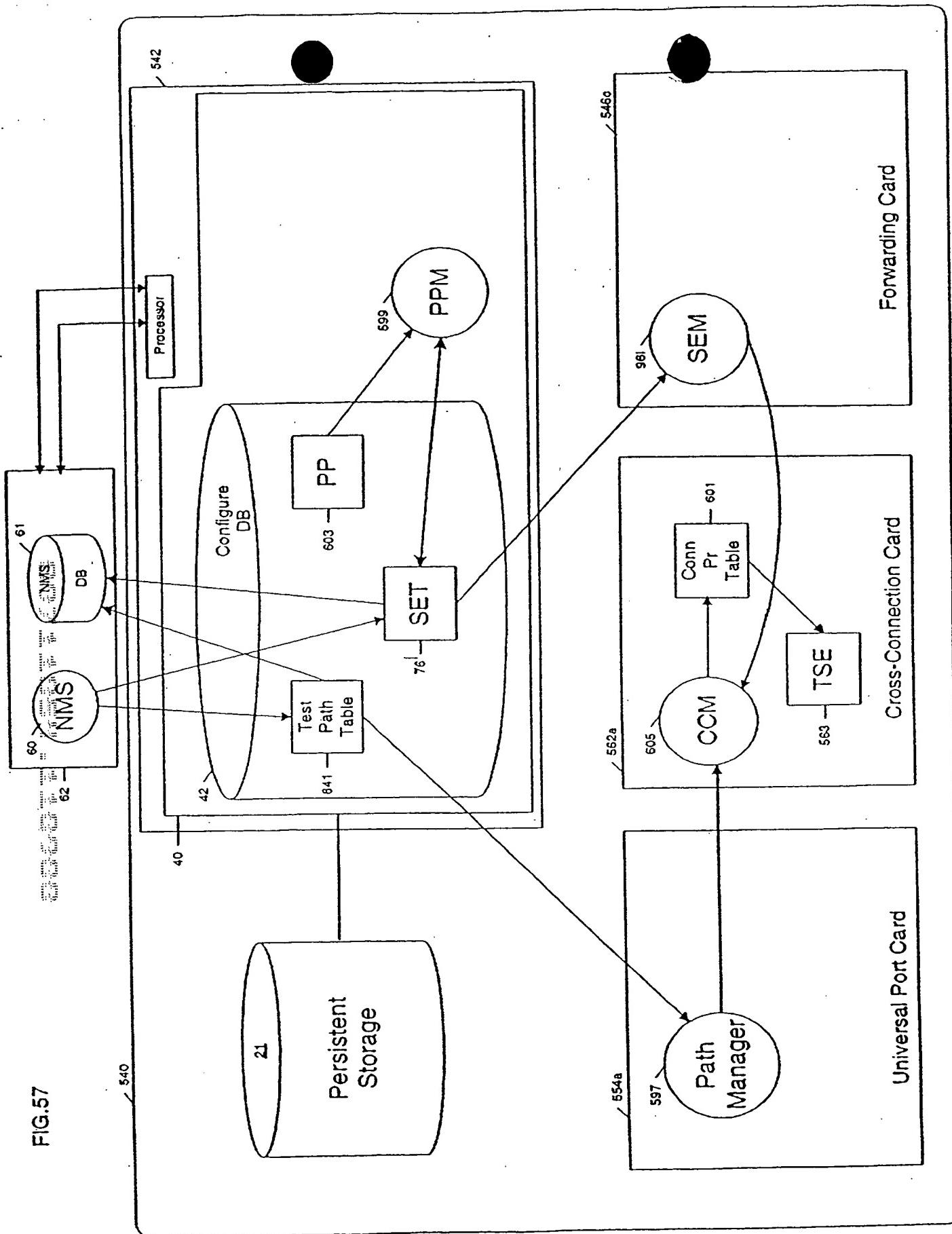


FIG. 58

Test Path Table 841

844 845

Path LID	UP Port LID	Time Slot	# of Time Slots	Monitor	Enable Port Receiver	...
842 1666	1232	4	3	Ingress	No	
843 1666	1233	4	3	Egress	No	
844 1666	1233	4	3	Ingress	Yes	
...	

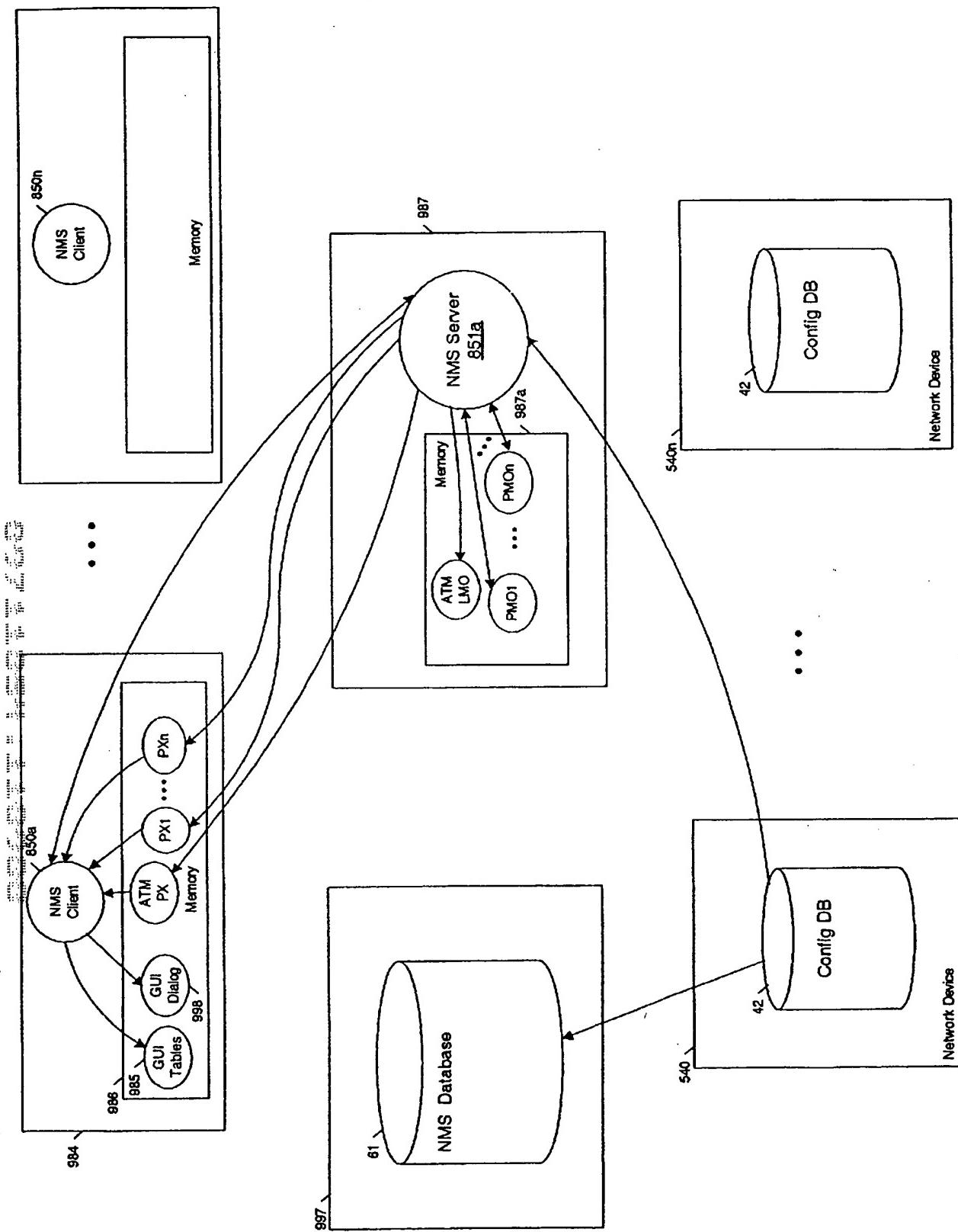


Fig. 59

Fig. 60a

Managed Device Table

PID	A1	...	An
1			

983b → PID A1 ... An ← 983
1 → 983a

Fig. 60b

Chassis Table

PID	A1	...	An	Managed Device PID
1				1
⋮	⋮	⋮	⋮	⋮

988b → PID A1 ... An ← 988c
1 → 988a

Fig. 60c

Shelf Table

PID	A1	...	An	Chassis PID
3				2
4				2
⋮	⋮	⋮	⋮	⋮
18				2

989a → PID A1 ... An ← 989b
2 → 989

Fig. 60d

Slot Table

PID	A1	...	An	Shelf PID
20				3
21				3
⋮	⋮	⋮	⋮	⋮
116				18

990a → PID A1 ... An ← 990b
3 → 990
18 → 990d

CARD TABLE

PID	CWD TYPE	VERSION NO.	SLOT PID	...
120	0XF002	3	20	
121	0XF002	4	21	
•	•	•	•	•
•	•	•	•	•
124	0X6002	1	24	
•	•	•	•	•
•	•	•	•	•
131	0XF002	1	31	
•	•	•	•	•
•	•	•	•	•

47b

47a

47'

FIG. 60e

PORT TABLE

PID	PORT TYPE	VERSION NO.	CARD PID	...
300	00620	1	20	
301	00620	1	20	
302	00620	1	20	
303	00620	1	20	
304	00820	1	20	
⋮	⋮	⋮	⋮	⋮
400	00620	1	39	
⋮	⋮	⋮	⋮	⋮

FIG. 60f

FIG. 60g

SONET Path Table 600 /

The diagram illustrates a SONET Path Table with two rows, labeled 600a and 600b. Row 600a contains three entries: Path LID, Port PID, and Time Slot. Row 600b contains three entries: Path LID, Port PID, and # of Time Slots. The table has four columns: Path LID, Port PID, Time Slot, and # of Time Slots. The first row (600a) has entries: Path LID (901), Port PID (304), Time Slot (4), and # of Time Slots (3). The second row (600b) has entries: Path LID (901), Port PID (304), Time Slot (4), and # of Time Slots (3). The table is enclosed in a rectangular border.

Path LID	Port PID	Time Slot	# of Time Slots
901	304	4	3
...

FIG. 60h

Service EndPoint Table 76 //

The diagram illustrates the structure of Service EndPoint Table 76. It consists of a main table with several pointers labeled 76a through 76e pointing to its columns. The table has four rows and six columns. The columns are labeled: SE LID, Q #, FC PID, Slice PID, FC Time Slot, and Path LID. The first row contains values: 3000, 3000, 3000, 3000, 901, and three dots. The second and third rows also contain three dots in all columns. The fourth row contains three dots in the first two columns and four dots in the last four columns.

SE LID	Q #	FC PID	Slice PID	FC Time Slot	Path LID
3000	3000	3000	3000	901	...
•	•	•	•	•	•
•	•	•	•	•	•

Fig. 60i

ATM IF Table

ATM IF LID	ATM Group LID	SE LID	...
5054		3000	...
...

Fig. 60j

Virtual ATM IF Table

LID	A1	...	An	ATM IF LID
7489				5054
⋮	⋮	⋮	⋮	⋮

Fig. 60k

Virtual Connection Table

LID	A1	...	An	Vir. ATM IF LID
⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮

Fig. 60L

Virtual Link Table

LID	A1	...	An	Vir. Conn. LID	Cross-Conn. LID
⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮

Fig. 60m

Cross-Connect Table

LID	A1	...	An	Vir. Link1 LID	Vir. Link2 LID
⋮	⋮	⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮	⋮	⋮

Fig. 61a

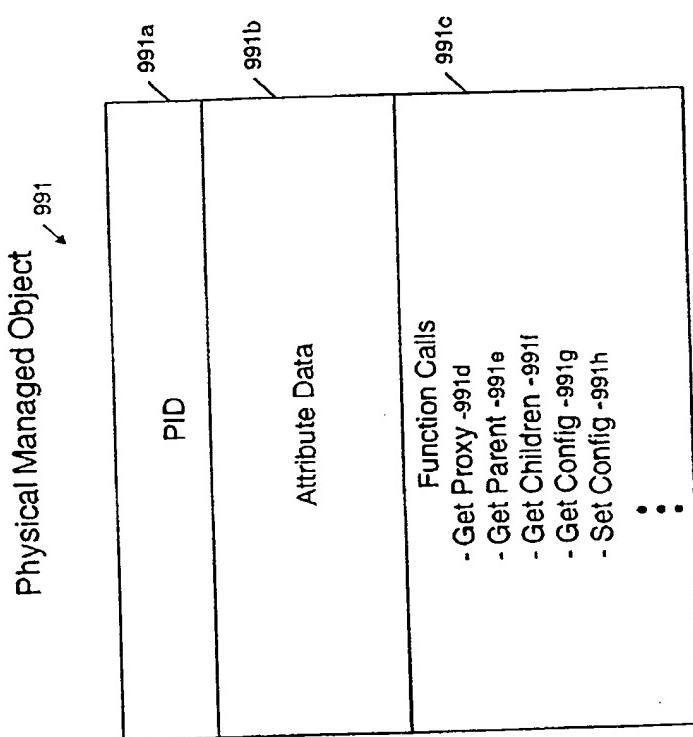
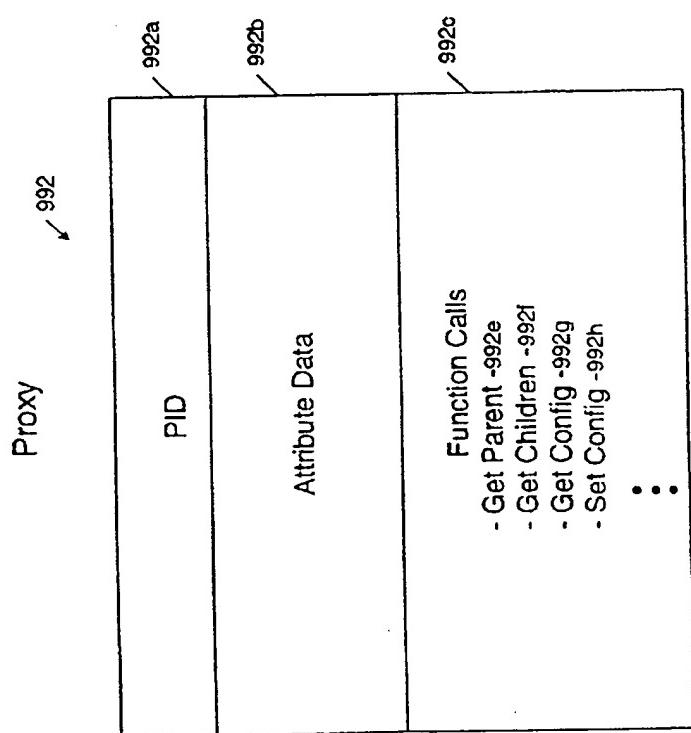


Fig. 61b



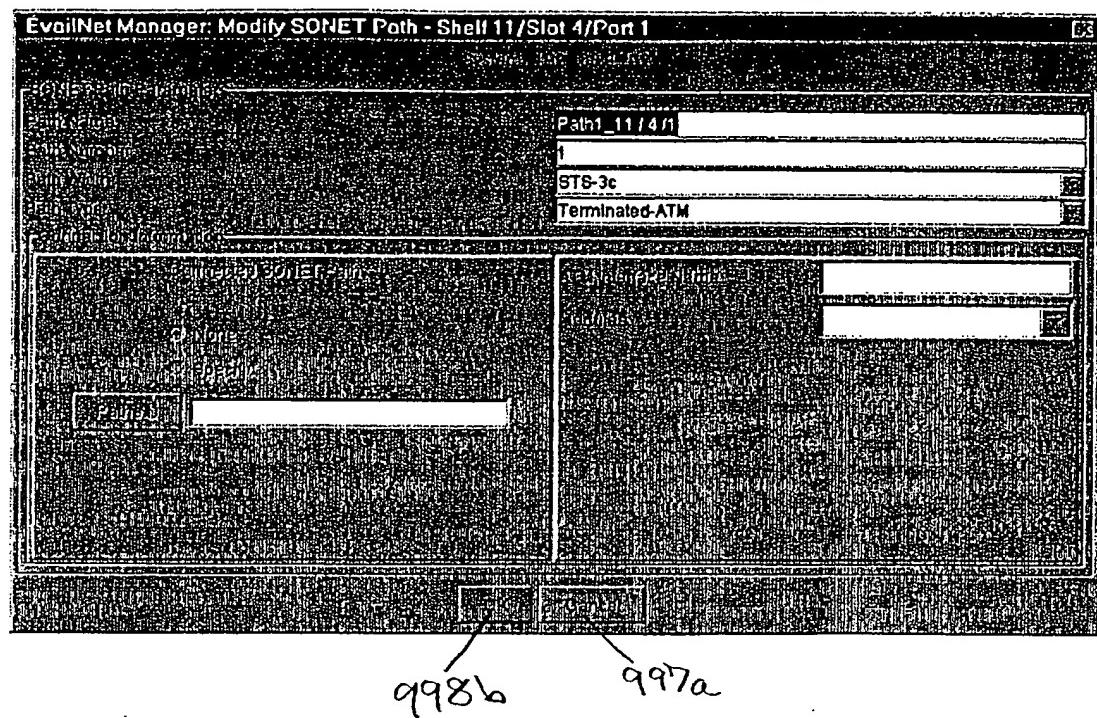


Fig. 62

FIG. 63

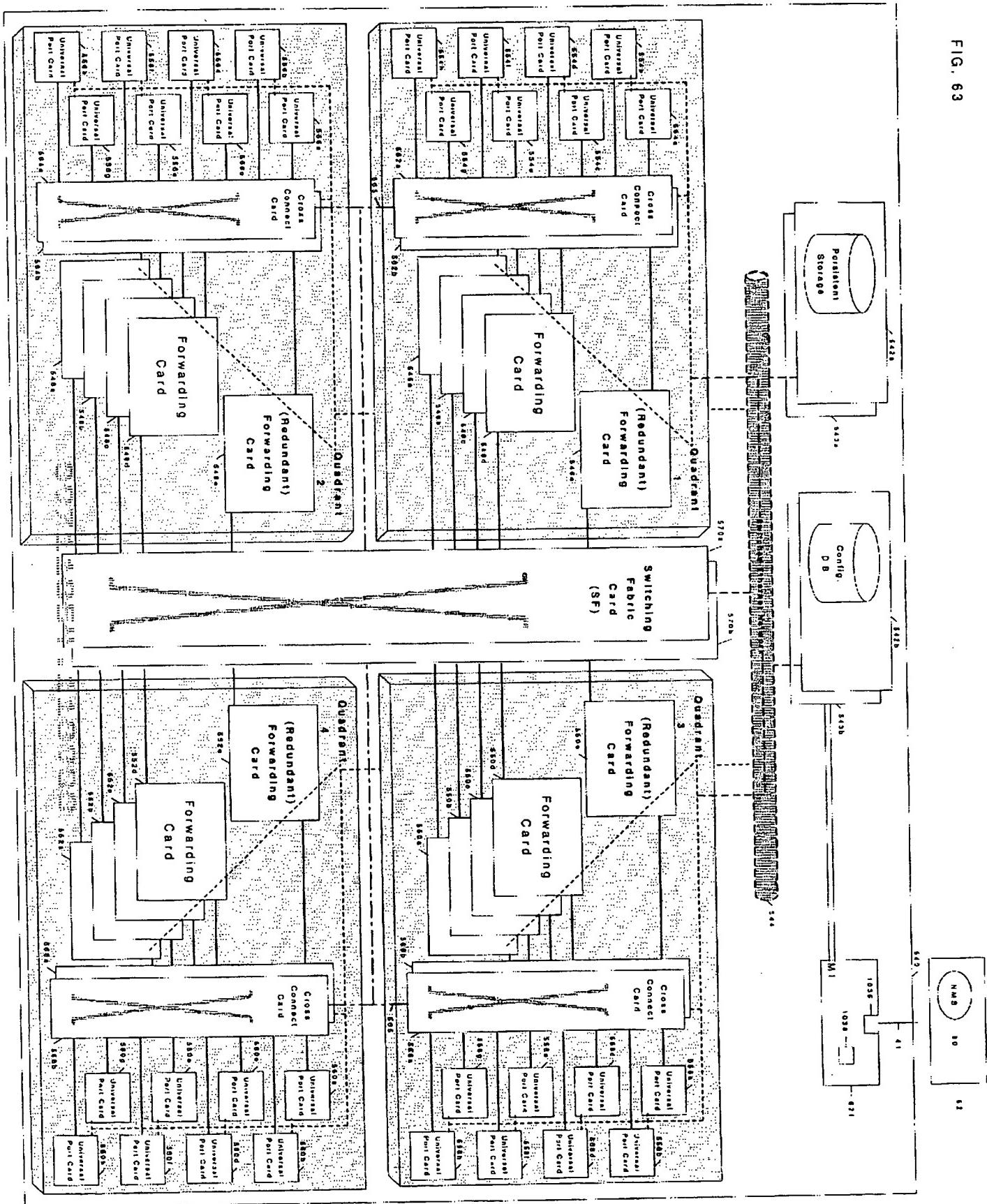


Fig. 64
Administration Managed Device Table

LID	Host Address	Port Address	Retry	Timeout	Admin. Password	Prov. Password	Viewer Password	Physical ID	Physical ID
9046	192.168.9.202	1521			team 1	team 2	team 3
:	:	:	:	:	:	:	:
:	:	:	:	:					



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**** CONTINUING DATA *******

THIS APPLICATION IS A CIP OF 09/703,856 11/01/2000
 WHICH IS A CIP OF 09/687,191 10/12/2000
 WHICH IS A CIP OF 09/669,364 09/26/2000
 WHICH IS A CIP OF 09/663,947 09/18/2000
 WHICH IS A CIP OF 09/656,123 09/06/2000
 WHICH IS A CIP OF 09/653,700 08/31/2000
 WHICH IS A CIP OF 09/637,800 08/11/2000
 WHICH IS A CIP OF 09/633,675 08/07/2000
 WHICH IS A CIP OF 09/625,101 07/24/2000
 WHICH IS A CIP OF 09/616,477 07/14/2000
 WHICH IS A CIP OF 09/613,940 07/11/2000
 WHICH IS A CIP OF 09/596,055 06/16/2000
 WHICH IS A CIP OF 09/593,034 06/13/2000
 WHICH IS A CIP OF 09/591,193 06/09/2000
 WHICH IS A CIP OF 09/588,398 06/06/2000
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 AND A CIP OF 09/574,343 05/20/2000
 AND SAID 09/593,034 06/13/2000
 IS A CIP OF 09/574,440 05/20/2000

**** FOREIGN APPLICATIONS *******

**IF REQUIRED, FOREIGN FILING LICENSE
 GRANTED ** 05/18/2001**

** SMALL ENTITY **

Foreign Priority claimed	<input type="checkbox"/> yes <input type="checkbox"/> no	STATE OR COUNTRY MA	SHEETS DRAWING 202	TOTAL CLAIMS 29	INDEPENDENT CLAIMS 4
35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance				
Verified and Acknowledged	Examiner's Signature	Initials			
ADDRESS 021125					
TITLE Network device identity authentication					

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